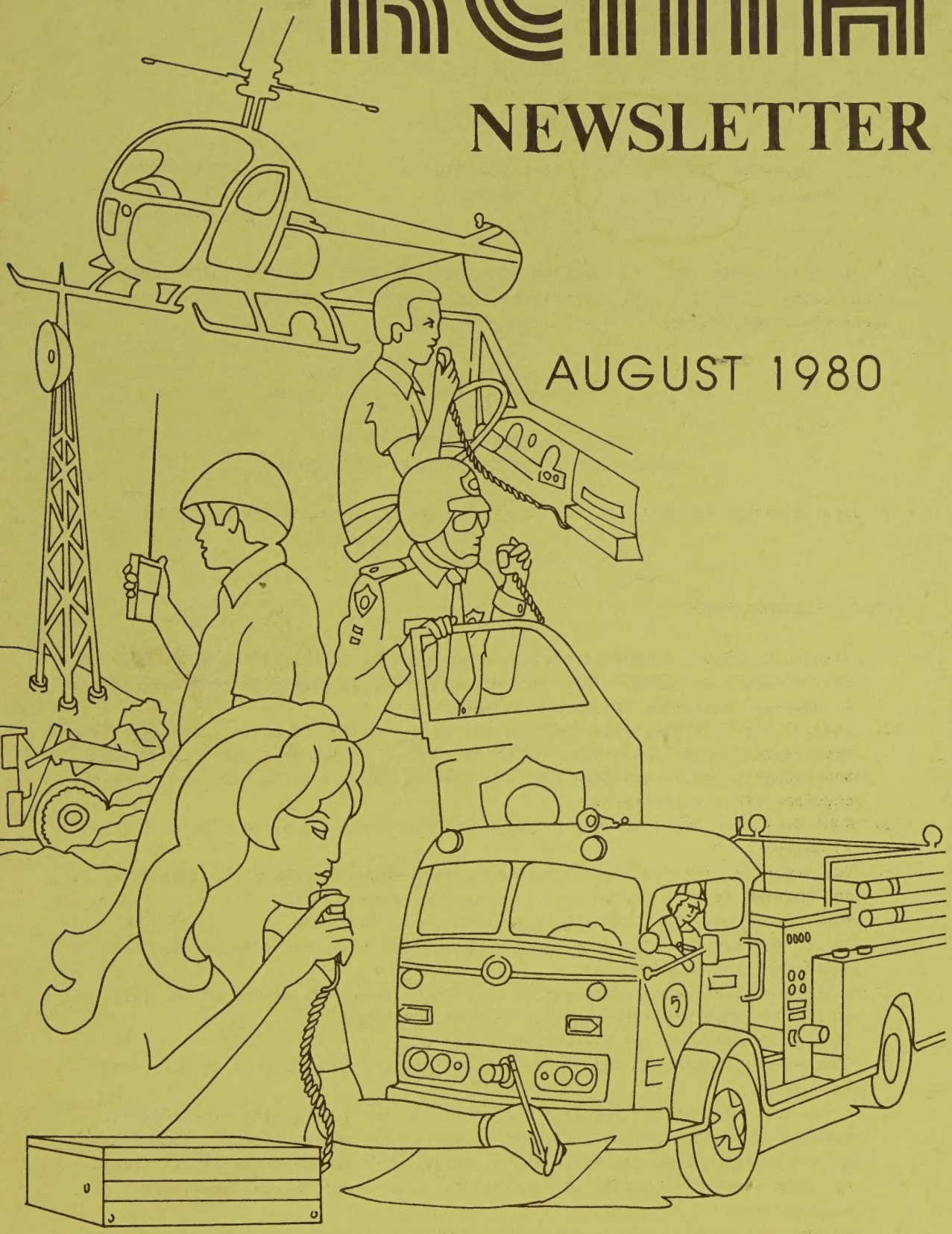
RCMA

NEWSLETTER



AUGUST 1980

FIRST NATIONAL AND INTERNATIONAL ORGANIZATION
OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

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FOR YOUR INFORMATION:

1. All club business, unless otherwise noted, must be addressed to: RCMA, P.O. Box 4563, Anaheim, CA 92803. This includes matters that relate to renewals, changes of address, newsletter delivery problems, etc.
2. Input to the RCMA Newsletter must be mailed to the proper editors whose addresses are included in the individual column headings. If no particular column seems appropriate, send it to RCMA, P.O. Box 216, Willow Grove, PA 19090 and mark the envelope "For Newsletter."
3. RCMA Newsletter back issues (reprints) are not presently being offered for sale to members.
4. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address in the envelope and mail to: RCMA, P.O. Box 408, Earp, CA 92242.
5. Please include your RCMA membership number with all correspondence to newsletter editors or club headquarters.
6. If you require a reply when writing to RCMA headquarters or one of the editors, you MUST enclose a self-addressed, stamped envelope.
7. Please only write on one side of the paper.
8. Please don't combine in one letter several items that should go to different addresses.
9. If you are inclined to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.
10. Your RCMA membership number and expiration date appear on your newsletter mailing label.
11. You may join or renew your membership for ONLY one year at a time.
12. The RCMA Newsletter accepts paid advertising. If you would like to place a paid ad, please write to our advertising manager (address above) for our advertising guidelines.

RCMA NEWSLETTER
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** Calendar **

Send notices of upcoming events for the Calendar section to John Clark, RCMA, P.O. Box 4563, Anaheim, CA 92803. Please send notices well in advance of the Newsletter deadline.

***please note newsletter deadlines refer to the month the letter is to be mailed. Not the date on the cover of the newsletter.

July 18-19-20 Combined general meeting with ANARC. University of Calif, Irvine.

July 29 TUESDAY Board meeting and newsletter labeling at Anaheim Library Branch 1349 S. Euclid. Board meeting 6:PM Labeling 7:PM. This is an opportunity to have your voice heard, assist the club, and catch up on the latest scanner activity. All members are welcome. Any DX members in the area on vacation. here is a good spot to break the trip. We can use all the help we can get.

August 4 MONDAY Newsletter deadline for "September" Newsletter.

August 16-17 weekend MOUNTAIN TOPPING tour with Karl CAOR022 and Danny CAOR004 Every one knows the higher the antenna the better the reception. This is the opportunity to go for some line of sight DXing with two experts.

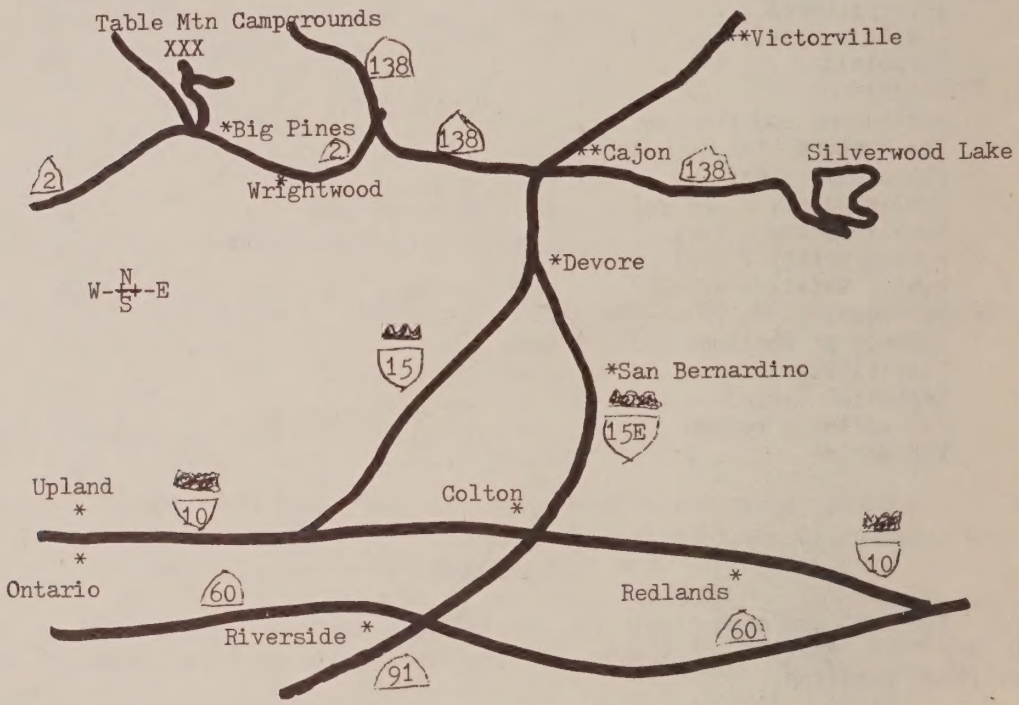
The fourth Annual RCMA Picnic (and Monitoring Spectacular) will be held this year at Table Mountain in the Angeles National Forest. There is plenty of room for all and lots of parking space.

Time: 8:00 AM (0800 hrs) Date: Saturday & Sunday, August 19 & 20, 1980

From Los Angeles and vicinity, take the Angeles Crest Highway, State Route 2 (SR2) all the way through the forest to the Big Pines Ranger Station. From Orange and Riverside Counties, and all points south, take Interstate 15E (I15E) to State Route 138 (SR138) turnoff toward Palmdale. Follow SR138 to Angeles Crest Highway, State Route 2 (SR2), and turn towards Wrightwood. Continue through Wrightwood to the Big Pines Ranger station. At the Ranger Station, someone will guide you into the picnic site or we will have a map posted to show which campground site we will be at.

For fire buffs, Wrightwood has a new fire station with 9 pieces of equipment, and Big Pines Station of the USFS has 4.

For side field trips, we may go to the Table Mountain "E" site, and to Blue Ridge "E" site.



September 2 TUESDAY Board Meeting and Newsletter labeling at Anaheim Library Branch 1349 S. Euclid.

September 8 MONDAY Newsletter deadline for "October" Newsletter.

Sepetmber 19 FRIDAY General meeting at Mercury Savings and Loan, Valley View and Lincoln Ave, Buena Park, Ca. This is to be one of our Sharing Sessions. Everyone is encouraged to bring something to share with the others.

September 30 TUESDAY Board Meeting and Newsletter labeling at Anaheim Library Branch 1349 S. Euclid.

October 6 MONDAY Newsletter deadline for "November" Newsletter.

October 17 FRIDAY General Meeting and a tour of KOCE Channel 50 TV satellite facility. Golden West College campus, Huntington Beach California.

November 4 TUESDAY Board Meeting and Newsletter labeling at Anaheim Library Branch 1349 S. Euclid.

November 10 MONDAY Newsletter deadline for "December" Newsletter.

November 21 FRIDAY General Meeting. Gordon West CAQK017 noted west coast editor and Larry Guy of the FCC tentatively scheduled.

December 2 TUESDAY Board Meeting and Newsletter labeling at Anaheim Library Branch 1349 S. Euclid.

December 8 MONDAY Newsletter deadline for "Janurary" Newsletter.

Janurary 4 TUESDAY Board Meeting and Newsletter labeling at Anaheim Library Branch 1349 S. Euclid.

Reports of Meetings and Officers

Send reports (informal accounts) of RCMA meetings, gatherings, etc. which have occured to: John Clark, RCMA, P.O. Box 4563, Anaheim, CA 92803.

R.C.M.A. Board Actions:

Appointed Chuck Gysi PA005 Managing Editor of the R.C.M.A. Newsletter.

Appointed Michael Iacono MA023 as advertizing Manager of the R.C.M.A. Newsletter.

Relieved Noel Robertson CALA083 of the responsibilities of the R.C.M.A. presidency and appointed Jerry Short CAOR002 to fill out the vacancy on the board. This action was taken under the Interium Bylaws Article III Part B (November 1979 newsletter page 2) four board members present and voting affirmitive one member absent. The action was confirmed by a unanimous vote of the members present at the May 1980 general meeting.

Modified the R.C.M.A. newsletter advertizing guidelines to group auxilary hardware items --coax, antennas, crystals, power supplies, etc.-- with frequency books, allowing prices to be quoted. Ads for scanners and hardware over 100 dollars in value should not include prices.

Opened up the R.C.M.A. Newsletter for a temporary editors column on two way communication below 30Mhz. This would include Coast Guard rescue, news media nets etc. No sensitive goverment frequencies are to be included. This action is to be reviewed in six months after the general membership has voiced its reactions.

Portland, Or. - On May 10th, the Oregon-Washington RCMA members, and some non-members, were given a tour of Bonneville Power Administration's Dittmer Control Center in Vancouver, Wa. As usual, turnout was poor from most of the Washington members. Stan Hintz organized the tour and BPA's Jack Howard escorted us through their impressive facilities. Operation of the entire BPA system is controled from Dittmer, with the exception of some local facilities from Eastern Control Center, in Ellensburg, Wa. Their radio communications system consists of one VHF channel, simplex and repeater, interconnected in eight systems, linked by microwave and 406-420 UHF links. Besides the radio communications, these links carry intercom, telemetry, load control and monitoring, and other uses. The VHF transmitter sites follow their power transmission lines for the most part, but their range includes most of Oregon, Washington and western Montana.

Following the tour, the business meeting was held. In accordance with the majority poll at the first meeting, informality was the rule. The minutes of the last meeting weren't read, the treasurers report wasn't given (since no one was ever appointed to either position) and we immediately launched into informal discussion. Shortly thereafter most of us adjourned to the residence of Bob Gehri (Wa-007).

R.C.M.A. General Meeting June 20, 1980

Discused specifications of three new scanners:

Bearcat 210XL -- 18 channels and blue fluorscent display.
Bearcat 160 -- No control pots all touch pad controls.
Regency M400 -- 30 channels in an M100 box. No aircraft bands.
Bearcat 5/800 -- Crystal controlled 800 MHz receiver.

Gene Hughes editor of Police Call spoke on how the national editions are put together and on the aspects of trunking on the 800Mhz business bands.

THOUGHT waves

Chuck Gysi, Managing Editor, P.O. Box 216, Willow Grove, PA 19090

A Friday the 13th ax murder left an eastern Texas town stunned. Mothers locked up their homes and kept their children at home, fearful of a "psycho" killer at large.

The five-man police department was busy trying to crack the case. Burglars took advantage of the situation in the town, looting four stores.

"I think they knew we had our hands full," the town's police chief told a reporter. "It seems like everybody's got a police scanner these days."

And so once again, scanner owners get tagged as thieves, burglars, looters or whatever. It doesn't look good. Many of us as monitoring enthusiasts are sincere about our hobby. We derive pleasure from listening to our local police departments, fire departments, paramedics, businesses or whatever is interesting. We build on our hobby, trying to be as knowledgable as we can, but we also know that the information we gain is for our own use or to share with other hobbyists.

Unfortunately, as with any group, there are those that cause problems for the rest. Just as there are drivers who speed, CBers who cuss over the air and shoppers that shoplift, we have a bad bunch among us in the monitoring hobby. And they give the good guys a bad name. Let's work to give us a good name. Let folks know that monitoring is a legitimate hobby. And if the lawmen can weed out the bad guys, we'll all be a little more creditable.

With this, the August issue of the RCMA Newsletter, I begin my reign as managing editor, succeeding Iden Rogers (CA-RI-001) who has really turned around the newsletter during his tenure since April 1979. Iden built the newsletter into what it is today. All one has to do is take a look at our newsletter at the beginning of last year and compare it to now, and the big change is noticeable. We are more a magazine these days than the newsletter that we were. We all owe Iden our thanks for his contributions.

As you may have noticed, I started out this column called Thought Waves (replacing The Editor's Column) with a few thoughts of mine. I will continue to do so if I see anything that warrants a little opinion. My opinions certainly don't represent those of RCMA as a whole, but rather whatever I have on my mind regarding monitoring.

What do you have on your mind regarding monitoring? In the next month or two, I hope to start publishing your opinions as well in our newsletter. These opinions should be general in nature, topics that are too broad to cover in one of our many columns. These letters-to-the-editor originally were what our newsletter consisted of a couple of years ago. If you have any thoughts of your own that you would like to share with our members, please send them in to the address in this column's heading. It would be appreciated if you could type your letters, single-spaced, with a seven-inch column width, although it is not necessary.

By the time you receive this newsletter, it will be right before or after the 1980 convention of the Association of North American Radio Clubs (ANARC). It is being held July 18 through 20 at the University of California at Irvine. I am planning on attending the convention and a full report will be prepared for this newsletter.

With this edition, we welcome a few new folks to the newsletter staff. Michael Iacono of Massachusetts is our new advertising manager. Michael will work with our advertisers in the newsletter. Also, in the next month or two, Chris Devendorf (CA-OR-050) will be joining

our staff as a column editor. Chris will be covering something new for our newsletter--shortwave utility listening. Many of our members are active "ute" listeners. Utility transmissions on the shortwave (2-30 MHz) band include air-to-ground, ship-to-shore, military, government, etc. Many exciting things can be heard on shortwave two-way communications and we intend to add this dimension to our publication.

We still have several openings on the newsletter staff. Openings exist for column editors for the following: Monitoring and the Law, Technical Topics, Aircraft and Canada. For further information regarding these positions, please refer to the information under the respective column headings in this newsletter. Also an opening exists for an assistant newsletter editor. This person will be my right-hand person and assist me with my duties as managing editor. It would be best if this person were located in eastern Pennsylvania, Delaware, eastern Maryland, New Jersey or metro New York, but it is not necessary and could be located in the nation. If you think you might be interested in this position, please type a letter to me telling a little about yourself.

We also welcome this month, Don Erickson (CA-RI-004) as our third ANARC representative. Don has been active with ANARC in the past and should serve our club well representing us.

The federal government publishes many booklets and pamphlets that would be of interest to radio hobbyists. One such booklet, 53 pages long, is entitled "Nine Hundred MHz Trunked Communications Systems Functional Requirements Developments." The booklet costs $2.25 and its number is S/N 027-000-00788-1. It may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The Superintendent of Documents also publishes monthly a catalogue of selected U.S. Government publications. Although most of the booklets and pamphlets offered are consumer-oriented, there does seem to be at least one or two offered each month that would be of interest to radio hobbyists. For instance, in the June issue, a 16-page pamphlet entitled "NBS Time and Frequency Dissemination Services" is offered for $1.50 (S/N 003-003-02150-4). If you are interested in receiving the monthly catalogue free, write to the above address and tell them that you would like to be placed on the mailing list for the monthly "selected list."

Many of us monitor enthusiasts run in to a problem with a manufacturer or store occasionally when a radio or some gear we buy has some problems. Hopefully, we might be able to help you out better in the future. I am proposing here that we start a consumer help column in our newsletter to deal with these problems. But first we need an editor capable of handling the responsibility. Such an editor would deal with members' complaints about radio gear that may not be working properly, getting refunds that are due and offering a few tips on how do avoid getting into such situations. This editor would be in contact with customer service departments of radio manufacturers in helping out other members with problems and attempt to pull a few strings with stores that give you a tough time. It will be sort of an action line or help column that may appear in your local newspaper. Interested in doing this column? If so, type a letter telling me.

The RCMA Newsletter is published monthly by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, P.O. Box 4563, Anaheim, CA 92803. Subscription rate/membership fee is $10.50 per year for U.S. residents and $12.85 (payable in U.S. funds) for persons in all other countries (dues subject to change). Information contained herein primarily is obtained from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA Newsletter editors and officers are not responsible for the accuracy or validity of information contained herein. RCMA does not necessarily recommend or endorse products or services advertised herein. This publication is copyrighted ©. Reproduction of any material in this newsletter is prohibited without prior written permission.

Beginners Corner

Have a question? If you are a new scanner listener and don't understand something about monitoring that most everyone else seems to understand, send in your question. When possible, your question and the answer will be printed. No answers will be sent by return mail. Your name will not be printed. Write to: David E. Crowley, 7234 Balson Ave., University City, MO 63130.

Q. Where can I get a complete list of taxi-cab licensees in my state?

A. Contact Action Radio Information Systems, Inc., P.O. Box 221 Charles Town, West Virginia 25414. (304) 725-8357. Address your inquiry to Walter Spencer. Action Radio publishes the Scanner Mate directories which include taxi-cab listings. They also sell complete state frequency lists and will do custom searches through the entire FCC Master File. I suggest that you call Mr. Spencer to get the latest prices.

Beginners tip for the month- Tidbits and comments:

1) An excellent source of information for the beginning listener is the first 4 pages of Police Call, 1980. A good way to get beyond the beginners level is to pick a small community where you live, or nearby, and learn everything you can about its radio system using your scanner and the information found in Police Call. You may discover that the data in Police Call tells you where to look, but does not give you much information about the actual operation of the system in question. I've heard a lot of criticism of Police Call for this reason. However, the criticism is entirely unjustified, because Police Call is based, for the most part, on FCC licenses. For any given system the licensing pattern is determined largely by political and bureaucratic complexities and only to a small degree by the technical and operational features of the system. For this reason, and others, the FCC does not really know how its assigned frequencies are being used. In fact, over the past 5 years, the FCC has spent a lot of effort to monitor the two-way radio bands in larger cities specifically to learn how much and when its channels are in use. This has nothing to do with enforcing the rules, but is part of long-term effort to improve the efficiency of spectrum use.

2) Many of you have probably heard about tone-coded squelch and how it is used to reduce interference from other occupants of the same frequency, or to call a group of mobile units, without calling another group on the same frequency. If you're not familiar with the various types of tone activated squelch circuits, see Chuck Smith's article in the April 1980 Newsletter. All this by way of introduction to two interesting features in recent issues of Communications. In the December 1979 issue Les Ettinger described a synthesized tone monitor which can be used with a scanner to record and store any one the 32 EIA standard subaudible tones. The recording and storage features of this device are very similar to those of the Bearcat 250, except that squech tone frequencies, rather than RF carrier frequencies, are stored. This monitor, the International Telepath IT 101, is available through Mr. Ettinger, Communications Consultant, 3835 Perie Lane, San Jose, CA 95132, (408) 923-2229. In the June 1980 issue of Communications, an article by Thomas E. Hoag gives basic instructions for installing a tone squelch decoder in an FM transciever or scanner.

3) There are alot of lists floating around which purport to contain the "Offical APCO" ten signals. However, APCO specifies only 10-1 through 10-39, with 10-40 through 10-99 for local designation.

10-35 through 10-39 are reserved for future APCO assignment. The complete list of 10 signals can found on the back page of the 1980 Police Call. Remember, anything between 10-40 and 10-99 is assigned locally and not by APCO.

4) The ultimate receiver! F.G. Mason Engineering, Inc. has announced a portable spectrum surveillance receiver, Model A2C, which covers 50 kHz to 2GHz, that's right, 2 Gigahertz. This receiver is similar in operation to those manufactured, mostly for the government, by Watkins-Johnson, whose receivers can be controlled by computer. For the listener who has everything, F.G. Mason is located at 1700 Post Road, Heritage Square, Fairfied CT 06430 (203) 255-3461; Watkins-Johnson is at 700 Quince Orchard Road, Gaithersburg, MD 20760 (301) 948-7550. Be the first on your block .....!

5) What is it about the monitoring hobby that is so fascinating to most of us? The answer, of course, will be different for each individual. For me it is the ability to assemble rather comprehensive and accurate information about systems and procedures that most agencies might want to keep secret, and the fact that this information is in the public domain. What I find exciting the ability to monitor and understand various transmission rather than their particular content. For instance, I would go to some effort to discover which mobile telephone channels are used locally, but once I had the information and had verified it with my scanner, I would rarely listen to these channels.

International

Richard Stein, Editor

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences and any other information relating to monitoring in countries other than the United States and Canada.

Send to: Richard Stein, 456 Barrymore Pl., North Brunswick, NJ 08902.

FLASH

Remember that dream receiver I mentioned in the June issue of the Newsletter? Read on-maybe this is the first step towards that radio-

H. Brian Hemingway (ENGLAND-002) reports that he is awaiting a new Japanese programmable scanner. Specifications are impressive with frequency ranges of 26-88, 108-180 and 380-514 MHz. All this and AM or FM too! That's all he's reported. I have written him for more information and I will report as soon as I hear from him. Sounds very interesting.

MORE UK

Brian (ENG-002) and George (OR-001) both report that the British "Radio Shack, Ltd."(see ad copy in the June column) is a rather well stocked amateur radio store in the West Hampstead area of London. It is privately owned by a Mr. T. Edwards and has no connection with the American "Radio Shack". The American stores operate in the United Kingdom as the "Tandy Corporation" with headquarters in Wednesbury, West Midlands. They have about 170 U.K. outlets which are a mixture of company owned stores and franchised dealerships. Tandy, to the best of Brian's knowledge, does not supply Bearcat scanners, presumably so as not to detract from the sales of their own Realistic units now available in the U.K.

Brian also reports that crystal operated scanners have been on the market in the UK for many years. His first unit was an 8 channel aircraft scanner made by Park Air Electronics (a British company now part of International Aeradio, Ltd., specialists in aircraft communications equipment). Currently on the market for airband coverage is the Regency ACT-T-720A (Digital Flight Scan), widely advertised at about £230 ($517 US). Besides this, the Bearcat and Realistics, are the range of SBE Sentinels, including the Opti-Scan. Fine reporting Brian- thanx for the info. on scanners.

ULSTER/NORTHERN IRELAND

A friend who has spent some time in Northern Ireland reports the following general band set up:

35-48MHz.-mostly Military Long Range/Helicopter Control Band
TV Band 2- 405 line VHF- due to close shortly.

66-88 Main PSB: 66-70 (these broadcasts will appear anywhere in the band) Police input, Fire input, Military Patrols or Undercover operations
••some emissions in this band are AM••
72-87 Local commercial to taxis, gas, ambulance, some on repeaters, some not.••Also Republic of Ireland Police (GARDA)-simplex only, but some scrambled ••

99.9 to 108 this is a short band where main Police and Fire repeaters come out.

146 to 174 mostly Military, Police, some commercial

174 to 215 TV-3, ITV, RTE (625-line color)

215 to 400 unknown broadcasts appear anywhere. Very unusual broadcasts- may be some DVP coded messages.

400 to 470 UHF used as the main cities' and towns' broadcast nets, Police and Military Repeaters and Inputs (8 channels in use)
Lots of UHF and V/UHF links for Fire Control and commercial repeaters on VHF, Police Links.

470 to 850 UHF-TV, 625-line color-main broadcasting area.

850 and up Unknown activity

More information on monitoring in Northern Ireland next month.

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VHF Marine

Rod O'Connor, Editor

Send information, articles, frequencies and how they are used and questions that relate to private, commercial and Coast Guard VHF maritime and inland waterways radio communications to: Rod O'Connor, USCG Group, 259 High St., South Portland, Maine 04106.

Channel	Transmit (MHz) Ship	Coast	Traffic
65	156.275	156.275	Port operations
06	156.300	-	Intership
66	156.325	156.325	Port operations
07	156.350	156.350	Commercial
67	156.375	156.375	Commercial, Non-commercial
08	156.400	-	Intership
68	156.425	156.425	Intership, Marinas, Yacht Clubs
09	156.450	156.450	Port operations
69	156.475	156.475	Commercial, Non-commercial
10	156.500	156.500	Port operations
70	156.525	-	Non-commercial
11	156.550	156.550	Port operations
71	156.575	156.575	Non-commercial, Marinas
12	156.600	156.600	Port operations
72	156.625	-	Commercial, Non-commercial
13	156.650	156.650	Port operations
73	156.675	156.675	Commercial, Non-commercial
14	156.700	156.700	Port operations
74	156.725	156.725	Ship movement
15	156.750	156.750	Government operations (1 watt only)
75	-	-	Guard Band for Channel 16
16	156.800	156.800	DISTRESS, SAFETY, CALLING
76	-	-	Guard Band for Channel 16
17	156.850	156.850	Pilotage (1 watt only)
77	156.875	-	Commercial, Non-commercial
18	156.900	156.900	Commercial
78	156.925	156.925	Commercial
19	156.950	156.950	Canadian Coast Guard
79	156.975	156.975	Commercial
20	157.000	161.600	Port operations
21	-	161.650	Continuous marine broadcast
21A	157.050	157.050	Can. and US Coast Guard
81	157.075	157.075	Can. and US CG anti-polution
22	157.100	157.100	Calling Can. and US Coast Guard
82	157.125	157.125	Can. and US Coast Guard
23	157.150	161.750	Government coast station
83	157.175	157.175	Can. and US Coast Guard
24	157.200	161.800	Government coast station
84	157.225	161.825	Government coast station
25	157.250	161.850	Government coast station
85	157.275	161.875	Government coast station
26	157.300	161.900	Government coast station
86	157.325	161.925	Government coast station
27	157.350	161.950	Government coast station
87	157.375	162.975	Government coast station
28	157.400	162.000	Government coast station
88	157.425	162.025	Government coast station
WX-1	-	162.550	Continuous weather broadcast
WX-2	-	162.400	Continuous weather broadcast
WX-3	-	162.475	Continuous weather broadcast

Once again this month, MICHEL (CAN-017) has furnished some interesting information about Canadian Marine Radio, and the Canadian Coast Guard's Saint Lawrence River Vessel Traffic Control System.

The Saint Lawrence River System is designed to monitor movements of all ships along the Saint Lawrence River, from the Gulf of Saint Lawrence

VHF MARINE CONTINUE

to Montreal. The River is divided into seven sectors, listed below. Each sector has an assigned frequency, with which communications are maintained with the individual ship. Passing instructions, navigational information, weather advisories, and radar contacts are all passed between the traffic controller, and the ship, as well as amongst ships themselves. Listening to these conversations is extremely interesting and informative at times.

Here are the sectors and their working frequencies:

Sector Number	Working Channel (VHF)	Sector Limits
1	14	Sept Iles to Pointe au Boisvert
1A	9	Pointe au Boisvert to Ile Blanche
2	12	Ile Blanche to Ste Petronille
3	11	Ste. Petronille to Grondines Light
4	13	Grondines Light to Yamachiche Light
5	9	Yamachiche Light to Cap Ste. Michel
6	10	Cap Ste. Michel to Montreal

Channel 9 - 156.450 mhz Channel 10 - 156.500 mhz
Channel 11- 156.550 mhz Channel 12 - 156.600 mhz
Channel 13- 156.650 mhz Channel 14 - 156.700 mhz

There are several similar Vessel Traffic Systems located in the U.S. Over the next few months, they will be described in this column.

Michel has also provided the following list of CANADIAN Marine Freqs. Note that they are similar to the U.S.A.'s, although there are some exceptions

Railroads

Ken Fitzgerald, Editor

Send information about railroad frequencies and their uses, radio system details, tips for monitoring railroads, explanations of railroad jargon and related information and questions to: Ken Fitzgerald, 121 East Hackberry, Enid, OK 73701.

Welcome to August! As I mentioned last month in the discussion of Amtrak radio assignments, the Chessie System appears to be moving toward the implementation of a four frequency radio system for train operations. This system is reorganizing the usage of frequencies originally assigned to the three railroads which merged to form the Chessie System: Baltimore & Ohio, Chesapeake & Ohio, and Western Maryland. All Chessie System locomotives and cabooses are being equipped to operate on the following frequencies:

Channel #1 ------ Road Channel ---------- 160.230 (ex- B&O ch. #1)
Channel #2 ------ Road Channel ---------- 160.320 (ex- B&O ch. #4)
Channel #3 ------ Road and Yard Channel --- 160.530 (ex- B&O ch. #2)
Channel #4 ------ Yard Channel ---------- 161.160 (ex- C&O ch. #1)

In addition to these, 160.470 seems to be a popular frequency for internal yard usage.

In the June issue Bryan Hunnel contributed a fine list of four digit numbers which are used to identify idividual local freights on the Santa Fe. Several other types of long distance trains on the Santa Fe--such as unit coal or grain trains--also are identified with four digit numbers, but the majority of through freight trains are identified on paper and over the radio by a special three digit number. The first digit designates the area where the train originates, while the third digit indicates the destination as follows:

Digit Code	Origin/Destination
1	Chicago (Corwith and McCook, IL included)
2	Illinois junctions (all points between, but not including McCook, IL and Sibley, MO)
3	Kansas City (Sibley, MO to Morris, KS)
4	Kansas (all points west of Morris, KS); Oklahoma north of Purcell or Altus; Colorado north and east of Trinidad; also Superior, NB
5	East Texas (all points east of Sweetwater and San Angelo, TX)
6	West Texas (all points south and west of Sweetwater and San Angelo, TX except El Paso and Pecos, TX)
7	New Mexico and Arizona (all points New Mexico, Arizona, and Colorado west of Trinidad; also El Paso and Pecos, TX)
8	Southern California (all points east and south of Barstow)
9	Northern California (all points north of Barstow)

The second or middle digit shows the type of traffic handled or service performed by the train as follows:

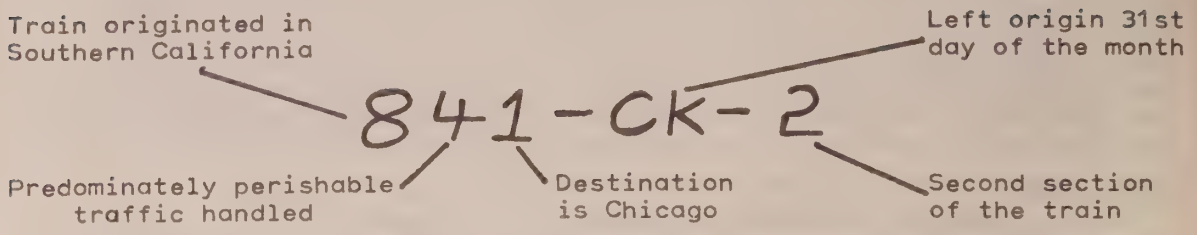
Digit Code	Traffic or Service
0	General service
1	General service
2	General service
3	General service
4	Trains handling predominately perishable traffic
5	Trains handling predominately perishable traffic
6	Trains scheduled in conjunction with another railroad
7	Trains scheduled in conjunction with another railroad
8	Unit trains
9	Special trains

Each train is assigned an alphabetical letter for the day of origin, and these follow the three digit symbol:

Day of the Month	Day Symbol	Day of the Month	Day Symbol	Day of the Month	Day Symbol
1	A	11	K	21	U
2	B	12	L	22	V
3	C	13	M	23	W
4	D	14	N	24	X
5	E	15	O	25	Y
6	F	16	P	26	Z
7	G	17	Q	27	BG
8	H	18	R	28	BH
9	I	19	S	29	BI
10	J	20	T	30	CJ
				31	CK

All trains have a numerical designation to follow the day symbol. the train departing on the scheduled time carries the number "1". Other sections of the same train are given consecutive number designations; for example the second section number is "2", the third section number is "3", and so on. If two trains consolidate for any reason and terminate at the same point, the consolidated train operates on the schedule of the one with the earliest destination arrival. When trains with different destinations consolidate, the schedule of the train with the most distant terminal is used.

Here is a complete example of a freight train designation:


Train originated in Southern California
Left origin 31st day of the month
841-CK-2
Predominately perishable traffic handled
Destination is Chicago
Second section of the train

In addition to these numerical designations, special train movements are sometimes given letter designations based on the two letter telegraph designation of the originating terminal or the type of train, with the third letter an "E" or "W" to give direction of travel. Examples would be "ACW", standing for Arkansas City West; "DYE", standing for Gainesville East; and "DSW", standing for Director's Special West.

Next is a good list of Canadian railroad frequencies contributed by BOB(NY-3) and DOUGLAS(CANADA-041), good work guys!

Canadian National:

Channel #1 (road) ------ 161.415
Channel #2 ------------- 161.205
Channel #3 ------------- 160.935
Channel #4 ------------- 160.665
Channel #5 ------ 160.365
Channel #6 ------ 161.295
Channel #7 ------ 160.455
Channel #8 ------ 161.025

Canadian National road engines are equipped with at least the first four channels, one being the road channel, while two and three are usually dispatcher channels. The use of the other channels apparantly varies with area. Channel six (161.295) is used by the CN's GO Trains (government operated Toronto rail commuter operation).

Maintenance of way channel #1 (all dispatchers have access) -- 160.785
Canadian National police ---------- 46.300, 160.905
Fort Erie, Ontario car department ---------- 159.810
Yard use ---------- 161.085, 160.965

The CN uses tone access for trains to contact the dispatcher systemwide.

Canadian Pacific: (Calgary area)

Channel #1 (road) ---------- 161.475
Channel #2 (yard and shops) ---------- 161.115
Yard use ---------- 159.885, 160.185, 160.245, 160.335
160.635, 160.725, 160.815
Shops use ---------- 160.775, 161.145
Security ---------- 151.505
Unit coal trains ---------- 161.535
British Columbia tunnel repeater ---------- 160.425

British Columbia Hydro RR:

Road channel ---------- 160.545
Dispatcher channel ---------- 160.275
Maintenance of way ---------- 160.515

British Columbia RR:

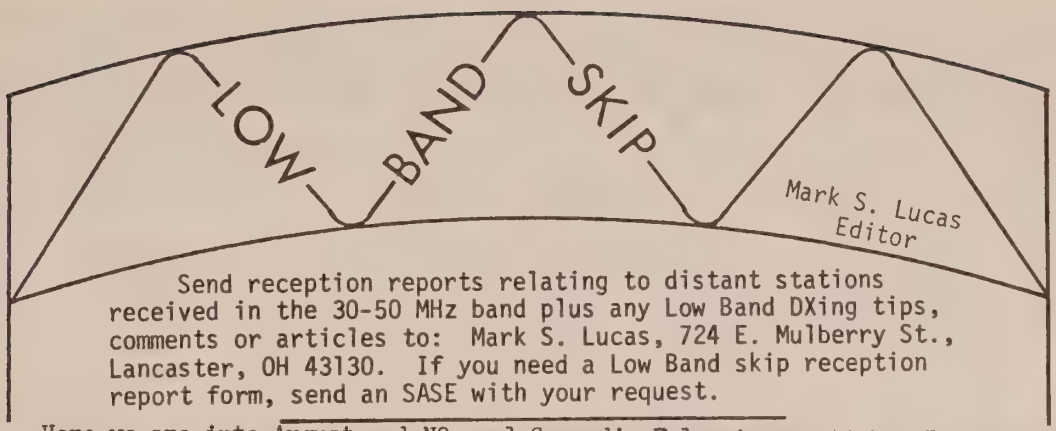
Road channel ---------- 159.570
Yard channel ---------- 161.235

Northern Alberta RR:

Road channel ---------- 160.275
Yard channel ---------- 160.515

Toronto, Hamilton & Buffalo RR: (CP owned)

Channel #1 road, tone access to dispatcher ---------- 161.505
Channel #2 yard ---------- 161.265



Send reception reports relating to distant stations received in the 30-50 MHz band plus any Low Band DXing tips, comments or articles to: Mark S. Lucas, 724 E. Mulberry St., Lancaster, OH 43130. If you need a Low Band skip reception report form, send an SASE with your request.

Here we are into August and NO real Sporadic-E loggings yet! But I trust you members for coming through. So send those loggings in today. You'll find a log sheet enclosed in the June newsletter. So then...what excuse can YOU give now?!

FROM (PA-045) (Sorry, I forgot your name!):

		33.90 MHz	KQI 316	NO ID	FIRE
B/M	BC-220	5-30-80	1025 EDT	NO LOCATION	

(Received mobile units were "3W81" and "3Q11." Any ideas folks?)

		33.74 MHz	??? 735	"BASE"	FIRE
BASE	BC-220	5-30-80	1210 EDT	NO LOCATION	
		37.24 MHz	NO CALL OR ID		POLICE? OR ELECT?
B/M	BC-220	5-30-80	NO TIME GIVEN	NO LOCATION	

(Editor's Comments: When you submit loggings, PLEASE give as much location as possible! There is no reason why time logged shouldn't be noted. Otherwise, such loggings may NOT be used!)

		37.10 MHz	NO CALL	"Base"	Road Construct.
B/M	BC-220	5-30-80	NO TIME GIVEN		

(Mobile units received were "Unit 25, 72, 28, 28-4, 70, 86A, 86-7.")

	FROM DAVID (MI-047):	33.66 MHz	NO CALL OR ID		FIRE
BASE	Realistic PRO-2001	3-16-80	1315 EST	Long Beach,CA	2200 Miles
		33.92 MHz	NO CALL OR ID		FIRE
BASE	PRO-2001	3-16-80	1330 EST	Sunnyvale,CA	2300 Miles
		33.92 MHz	NO CALL OR ID		FIRE
BASE	PRO-2001	3-16-80	1400 EST	Fairfield,CA	2300 Miles
		35.58 MHz	NO CALL OR ID		Mobile Phone
BASE	PRO-2001	3-16-80	1546 EST	Los Angeles,CA	2200 Miles
		35.46 MHz	NO CALL OR ID		Mobile Phone
BASE	PRO-2001	3-16-80	1555 EST	Los Angeles,CA	2200 Miles
		155.52 MHz	KSB-223	NO ID	Police
BASE	PRO-2001	1-6-80	2024 EST	McHenry CO.,Ill.	240 Miles

FROM BOB (CA-LA-089): "Concerning your column in the June issue. Either I or you omitted some essential information which might assist someone in IDing the non-fire traffic I received on a fire frequency, namely 33.82 MHz. Perhaps with you printing this I can get some assistance. It has really made me curious and I don't know how to proceed on IDing it except by asking the members."

FROM EDGAR (VA-026): "Since back last winter there has been many signals from California,Nevada, Missouri, and Oregon coming in on my Regency Touch K-100. These signals usally come in on 39.20, 39.24, 39.28, 39.50, and 39.54 MHz.

On 39.28 from 2000 to 2100 EDT a skip signal was received from Cologne, Germany. This signal was traced to 15,410 KHz by using my RealisticDX-300 receiver. Although the language was in German, I was able to ID not only by listening to the announcer's words, but mostly by the interval signal (tuning signal). Two bars from "Fidelio", played on a celesta."

That seems to be it for this month. I myself have heard tons of Es skip. On May 30,1980 at the store where I work on our BC-250, I heard the states of New Hampshire and Massachussetts. N.H. was primarily on the 33 MHz fire band, and Mass. heard on the 39 MHz band, with 39.58 MHz a hotbed of Boston area activity. Also, Kansas,as is annually received, has been heard also on 39,58 MHz.

Again, if each one of you just contributes at least two loggings, this column will have enough material for many,many months! So, until next month, GET IN THOSE LOGGINGS SOON!

FCC TOPICS

George DuBois, Editor

Send FCC news and information of interest that relates to two-way communications above 30 MHz and questions regarding the FCC Rules and Regulations to: George DuBois, 10048 NE Campaign, Portland, OR 97220.

The FCC has adopted new rules providing for the sharing of a number of freqquencies by four of the Industrial radio services in a complicated geographical assignment plan. Briefly (as brief as possible), the channels 153.05, 153.125, 153.335, 153.35, 153.365, 153.38, 153.395, 158.325, 158.355 and 153.415 mHz. are shared in Iowa, Kansas, N.Dakota, Nebraska, Missouri (50 miles outside of St. Louis and Kansas City), Wyoming, Part of Colorado (Outside of Denver), and part of Minnesota (except Minneapolis) between the Manufacturers', Petroleum, and Forest Products Radio Services and also the Special Industrial Radio Service, except within 20 miles of Colorado Springs, Davenport, Ia., Des Moines, Duluth, Omaha, and Wichita. Also, (there's more)31.32, 31.4, 31.44, 31.48, 31.52, 31.6, 31.64, 31.72, 31.76 and 35.48 mHz are shared in the Special Industrial Radio Service and, within 75 miles of the Texas and Louisiana coasts, with the Petroleum Radio Service. 30.72, 31.48, 31.52, 31.64, 31.72, 31.76, 43.02, 43.28, 43.36, 43.4 and 43.52 are likewise shared with the Special Industrial Radio Service and also the Forest Products Radio Service, in Oregon, Washington, Nevada, and parts of Montana and Northern California.

The Commission has proposed amending Part 87 at the request of Aeronautical Radio, Inc. (ARINC) to allow the use of automated digital communications in the aeronautical enroute service. This would allow them to transmit routine information in a fraction of the time presently required. Actually, digital techniques using AFSK are authori ed now in the 118 to 136 mHz band and the only changes have to do with the requirments to have licensed operators initiate transmissions, the keeping of stations logs and the identification requirements.

After numerous requests, the FCC is proposing to eliminate the requirement that Amateur Radio stations identify the other station(s) with which they are communicating at the end of their transmission. Arguments advanced indicated this would "reduce channel usage and congestion", "aid operators engaged in contest operations" and besides, the CBers don't have to do it anymore.

Part 81 presently limits the number of Public Coast Stations (marine telephone stations) in a given area. This prevents duplication of service and ensures a station will become "economically viable". Unfortunately, it also stifles competition. So, in view of their policy of deregulation where allowable, the Commission is proposing to delete the present limits and allow applicants to be licensed until all 9 VHF marine telephone channels are filled, without regard to duplication of service, providing multiple coverage in an area and permitting a choice of service which could reduce user cost and generally improve service. They will also consider amending the financial requirements of companies prpposing service at the same time, since the financial qualifications likewise restrict entry into the Public Coast market.

There were a number of requests of the FCC to consider new channels for paging use. With the boom in "personal communications" in the past decade the number of pager users almost doubled between 1975 and 1978 and five million users are predicted within this decade. In one proposal, at the request of a number of common carrier companies, the Commission will allocate 40 channels, from 929.0125 through 929.9875 mHz in .025 mHz steps, for private paging services in the Industrial radio services. Two channels are reserved for pagers with optical readout of messages, six for tone paging only, and the rest for any type of paging, voice or tone. 40 more channels, from 931.0125 through 931.9875, are available to common carriers, both phone companies and RCC's. Again, two are reserved for optical readout pagers, the rest for unrestricted use. 40 channels in between these groups, 930 to 931 mHz, are reserved for future use. As a matter of interest, the maximum power output on these new channels is 2000 watts, which will cook a turkey in short order if you could hold it near their antenna!

FCC TOPICS CONTINUE

Another proposal called for allocation of channels for nationwide, or region-wide paging use. The FCC, though, stated that areawide, or intercity, paging through interconnection or whatever means, can just as well be accomplished on the 930 mHz channels.

The final proposal calls for the allocation of the 35 mHz mobile telephone channels on a shared basis with one-way paging. Few new applications are received for these channels and they aren't even used in many areas anymore. Under consideration is whether to allocate these channels for paging geographically, as is presently done with the mobile telephone stations and whether to allow any more new mobile telephone stations on these channels. Undoubtedly, paging companies on the two 43 mHz paging channels will be asked to consider moving to these channels to alleviate the TVI problem, as mentioned in the June column.

And finally, the FCC will consider extending the Jan., 1981 deadline for pulse-ranging radiolocation in the 420 to 450 mHz band. This was originally intended for use by SHORAN radiolocation systems that had to move from the 220-310 mHz band years ago. Nowadays, the band is mainly used for offshore mapping for oil exploration and no complaints of interservice interference have ever resulted. The use of this band is desired because the range is much greater than in a higher frequency band and it would continue to be shared with Government radiolocation and the Amateur Radio Service.

(Thanks to Kevin Slater in Salem, for supplying me photocopies of some of this material and the use of this neat typewriter.)

The Scene up North

Michel LeCompte, in Quebec City, Canada, sent me a Ministry of Communications booklet on the 406 to 960 bands in Canada. It deals with changes in allocations and contains a table of allocations, not specific channels, but a table similar to that in FCC Part 2. Unfortunately, it's all in French. My surname being no indication, the fact is the only French I ever managed to pick up is "with shower?" and "Fill er up"! Anyway, it's very similar to our own system, with slight differences. The band from 406.1 to 410 mHz is allocated for satellite to earth use, as well as mobile service. 410 to 420 mHz is available for mobile use with fixed service secondary, but in Canada 414 to 415 and 419 to 420 are available for fixed service, with mobile use secondary. 420 to 430 mHz is also available for mobile use and also radiolocation, in the coastal and mountain regions. 430 to 450 is for Amateur Radio and radiolocation. There's no T-band in Canada; the entire band, 470 to 890 mHz is allocated to broadcasting, except channel 37, 608 to 614 mHz, which is for radioastronomy, worldwide.

The band from 806 to 890 evidently is now allocated for mobile use on a primary basis, same as the US, but I can't decipher the footnote, something to the effect that existing TV stations can continue to operate until a new channel from channels 14 through 69 is assigned. I don't know if this means TV translater stations will operate in this band on a secondary basis, as in this country, or not. 902 to 928 mHz is a government band in the US with radiolocation, including Automatic Vehicle Monitoring, secondary, but I guess in Canada it's also shared with an Amateur Radio band. Interesting. Thanks, Michel.

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor radio listening and questions to:

EDITOR NEEDED!

We need a new Canada column editor. The editor need not be a Canadian, but it would be better if he/she were. Ideally, the editor would be fluent in both written English and French, although this is not a requirement. The editor should be thoroughly familiar with Canadian radio systems and allocations. If you are interested, please type a letter telling about yourself to: RCMA Managing Editor, P.O. Box 216, Willow Grove, PA 19090 USA.

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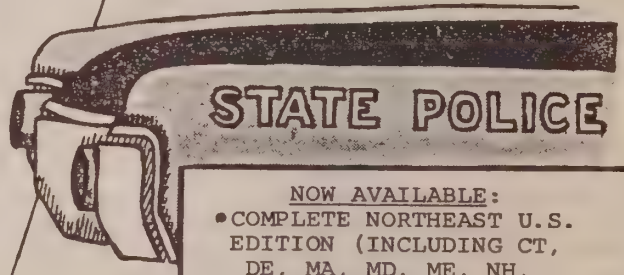
- Intersystem & Tactical State-Wide Networks
- National Disaster/Distress Frequencies
- State & National 10-Codes
- Radio Band Frequency List
- Monitoring & The Law
- Channel #s / System Uses
- State Troopers/Highway Patrol
- Civil Defense/Search & Rescue
- County Sheriffs/Fish & Game
- Turnpike Authorities
- Department of Motor Vehicles
- Forest Rangers/Indian Affairs
- Correctional Institutions
- Radar Communications
- CB Calls for State Patrols

By Nathan Young
RCMA #FL-021



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Robert B. Grove, Editor

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to: Robert B. Grove, Route 1-Box 156, Brasstown, NC 28902. Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

I would like to personally express my gratitude to the dozens of letter-writers and phone-callers who have sent their congratulations for the new FEDERAL FREQUENCY DIRECTORY. Especially appreciated are the carefully-thought-out constructive suggestions for any subsequent editions which may be considered in the future. Many thanks for your kindness and encouragement.

I would be remiss not to thank former editor Iden Rogers for his immense outpouring of personal energy and professionalism which played a major part in forming our newsletter into a formidable magazine. His persistence, insight, and dedication will be missed. Next, I know that our readers join with me in wishing our successive editor, Chuck Gysi, warmest wishes for his new challenge. Let us support Chuck as we have supported Iden so that RCMA will continue to grow at the astronomical rate which it now enjoys.

I can hint at one new publication which will be released soon. SCANNERS! will be a comprehensive user's bible, covering virtually every aspect of scanner listening. Antennas, accessories, home construction projects, interference filters, listening hints, frequency allocation band plans, product information, and many other topics will be included.

Other exciting projects are in the works! I would like to hear from members with suggestions for new accessories to make listening more effective. Suggestions for books or hardware are eagerly sought.

Another monitor (outside) antenna has been brought to my attention. The model SA-1 is an omni-directional dipole cluster designed for 27-54, 108-175, and 430-512 MHz. Additional information is available from the manufacturer, Antennacraft, P. O. Box 1005, Burlington, IA 52601.

NEW SCANNERS

And speaking of scanners, the June Consumer Electronics Show in Chicago is always a mind-blower. This CES announces two more Bearcat products! The BC-160 is a low-cost programmable, sporting 16 channels of FM low/high/UHF listening. In spite of the fact that it does not use track tuning on VHF it still has excellent selectivity (well below one microvolt), and good single-signal reception.

An innovative feature is the total absence of any knobs! That's right, no squelch knob and no volume knob! Every function is pushbutton-controlled. Squelch and volume are controlled by a stair-step threshold: As long as the appropriate button is depressed, volume or squelch will increase or decrease rapidly by tiny increments. Interesting, and it takes a little getting used to!

The BC-160 is AC-operated only, low profile, and has 30-50, 144-174, and 440-512 MHz frequency coverage. In addition, the 160 has priority, selectable 5/15 channels-per-second search/scan, and lockout. Retail cost is 279.95.

The second new product is an 800 MHz crystal scanner! Yes, someone has finally developed a receiver for the microwave mobile band. The little unit closely resembles the popular Bearcat 5 eight-channel receiver. The 800 MHz version features a higher frequency intermediate frequency and local oscillator, while utilizing the same crystals presently available for UHF reception! A conversion chart is included to calculate the proper UHF crystal to order for your local microwave frequency.

Military/government continued

The RF bandpass of the front end (crystal spread range to retain sensitivity under one microvolt without realignment) is 806-870 MHz. Retail price is $179.95.

Radio Shack will be announcing their new PRO-2002 within the next few months. It will be a distinct improvement over the venerable PRO-2001, including aircraft band coverage. No further details were available at this writing, but it will probably be price-competitive and will obsolete the PRO-2001.

While rumor has it that Regency will be integrating FM VHF/UHF with AM-VHF aircraft coverage in a forthcoming product, my pleas to the factory for information have been ignored as usual.

I recently purchased a Navy URR-35 220-400 MHz AM shipboard receiver at the Dayton Hamvention and have been having fun pruning it up a bit. For those URR-35 and URR-13 owners, be aware that the receiver is specified at only 8 microvolts sensitivity! It still works well, however, considering.

Over the years, I have managed to accumulate quite a collection of crystals for the receiver, and if members have any pet frequencies, I just might have a matching crystal. They are available at $5 each, postpaid. Don't send money until you sent the list of desired frequencies and alternates!

Member Joe Lewis (MD-015) shares with us this month the numbering system used for units of the U.S. Park Police.

100's	Downtown D.C.
200's	George Washington Parkway
300's	Rock Creek Park
400's	Baltimore-Washington Parkway
500's	Annacosta
700's	New York Area; not on the same frequencies as Washington, D.C.
800's	San Francisco Area; " "
Eagle 1&2	Helicopters (to Med Star-Trauma Hospital, Washington, D.C. 123.500 MHz)
Motors	Motorbikes and cycles
HMP's/MP's	Mounted police

Thanks, Joe for some good insight into these designators.

THREE MILE ISLAND COMMUNICATIONS

Chuck Gysi (PA-005), our business editor, sent in some interesting information to share with readers of the Federal Government column.

During the Three-Mile Island incident last March and April (1979), the Nuclear Regulatory Commission used equipment of the Departments of Agriculture and Energy rather than their own. US Forest Service "Command 2" (168.000 repeater out/170.450 input) was activated using a 5-watt repeater with 133 portable radios supplied by the National Fire Radio Cache.

Additionally, standard mobile radiotelephones were used on channels JL (152.510 out/157.770 in) and JR (152.810 out/158.070 in).

And finally, two repeaters, 75 portables, and 35 pagers shared two more channel pairs: 164.275 out/168.450 in, and 171.200 out/171.950 in.

Chuck got this information by invoking a Freedom of Information Act request. See, it works! Thanks, Chuck! You're a good reporter!

As our records become larger and larger, an occasional update is required. This month we were pleased to receive a complete (so far as we know) list of VHF/UHF FM assignments active at Homestead Air Force Base, Florida.

Many thanks to Robert Wyman and the Miami Group (P.O.Box 630883, Miami, FL 33163) for sharing this information with our readers.

HOMESTEAD AIR FORCE BASE

32.450	US Homestead AFB: Security police training
41.500	US Army control tower at Homestead AFB
139.900	US Homestead AFB
139.975	US " " tactical and training comm.
142.155	US Air Force Mars (input for 143.4625)
142.200	US Homestead AFB tactical and training comm.
143.460	US Air Force Mars (output for 142.155)
143.900	US Air Force: Civil Air Patrol (input for 148.150)
143.950	US Air Force Mars simplex
148.065	US Homestead AFB: commanders net (input for 149.565)
148.150	US Air Force: Civil Air Patrol (output for 143.900)

Military/government continued

148.200 US Homestead Air Force Base: VIP support/conference net
148.250 US Homestead AFB: tactical command post
148.455 US " " : Maintenance net "A"
148.500 US Homestead AFB: VIP support/conference net
148.545 US Homestead AFB: Maintenance net "C"
148.850 " ": Communications squadron (Radio maint.)
149.150 " " : Maintenance net "E"
149.265 US Homestead AFB
149.565 US Homestead AFB: Commanders net (output for 148.065)
149.925 US Homestead AFB: Civil engineering
150.195 US Homestead AFB: Maintenance Net "D", special purpose net
150.250 US Homestead AFB: Maintenance net "B"
156.600 MC Channel 12: Port Operations ship-ship/ship-coast
Homestead Air Force Base: Turkey Point Port Operations Net
163.4625 US Homestead AFB: Transient alert unit
153.475 " "
163.4875 " " : Security net (base perimeter security)
163.5125 US " " : OSI net
163.5375 US " " : POL net fuel shop, fuel trucks (petroleum, oil & lube)
163.545 " " "
163.5625 " " : M.A.C., A.R.R.S. Helicopter maintenance (military airlift command) (Aerospace rescue and recovery squadron)
163.5875 " " : Law enforcement/police net (Air Force police units on base)
165.1125 " "
165.1375 " " : Helicopter maintenance (reserve unit)
173.4125 " " : crash and fire operations net
173.4375 " " : taxi and disaster preparedness net
173.5625 " " : Medical net
173.5875 " "
412.100 " "
413.100 " " : Port training net
413.150 " " : MAC
413.200 " " : civil engineering prime beef team
413.450 " " : SAC Command post alerting net

Our next list contains a couple of lines which some members will feel were incautiously included. I am following the recommendations of several members who feel if it is published in the unclassified IRAC list (as printed in the FEDERAL FREQUENCY DIRECTORY), then it must not be of too much concern to the listed agency. I would like to hear from other members who feel strongly about where to draw the line.

From Steve (MA-028) CONNETICUT and MASSACHUSETTS

30.10 Ft. Devens Ops.
30.45 Marines; Westfield, Brimfield, Westover
30.50 Dept. of Int. animal tracking, Quabbin reservoir
30.60 " " "
30.70 " " "
32.75 F.B.I. transponder (non voice)
34.33 Ft. Devens Fire Dept.
38.40 Ft. Devens Ops.
38.51 " "
38.70 Army Helicopters; Westover
38.75 Westfield Marines
38.85 Ft. Devens Police Dept.
40.17 Westover Ops.
40.19 " "
40.65 Bradley Fld. Nat. Guard
40.93 Ft. Devens Police Dept.
41.90 Bradley Fld. Ops.
41.97 F.B.I. transponder (non voice)
46.95 Ft. Devens Ambulance
49.70 " "
49.80 Ft. Devens Ops.
49.85 Bradley Fld. Nat. Guard

Military/government continued

143.460	USAF MARS
148.050	Westover Admn.
148.065	" "
148.075	Bradley Maint.
148.095	Barnes Maint.
148.175	Commanders net
148.215	Barnes Crash Net
148.410	NAVY MARS
148.455	Barnes security
148.475	Barnes Disaster Net
149.225	Bradley Maint.
149.300	Bradley Weapons loading
149.550	Westover Commanders Net
149.695	Barnes Control Tower
150.200	Bradley Ops.
150.250	" "
150.300	" "
150.350	" "
150.700	Ft. Devens Hospital
163.275	Nat. Weather Serv.
163.4875	Westover Security
163.5875	Westover Mobile Net
165.0375	Westover Maint.
165.0875	Ft. Devens repair net
165.1375	Westover Maint.
166.5625	US Army Vermont
167.825	Dept. of Energy
168.125	Army Corp of Eng.
168.325	" "
173.4125	Westover Crash Crews
413.200	Westover Civil Eng.
413.450	Tactical Call Net

That's it for this month. Think how short it would have been if it were not for the generous donations of frequency lists from our members. Will we see your name printed here next month? See you then!

SCANNERS LTD.

bearcat • regency
midland • russell

WHOLESALE PRICES TO R.C.M.A. MEMBERS!

BC-300 BC-250 K-500 NEW 4-6 THIN SCAN

WE ALSO CARRY A FULL LINE OF ANTENNAS AND ASSESSORIES

FOR PRICE LIST & ORDERING INFORMATION

WRITE: ORCUTT & HUSSEY COMMUNICATIONS
P.O. BOX 216
FLORENCE, MA. 01060

RCMA MEMBER (MA 021)

- paid advertisement -

Aircraft

Mark Holmes, Editor

Send private, commercial, firefighting and law enforcement aircraft frequencies of interest in the 108-136 MHz range and frequencies in other bands associated with airports and aircraft plus questions, articles, and tips related to aircraft monitoring to: Mark Holmes, 1601 W. Maplewood, Marion, IL 62959. Please send all military aircraft frequencies and info to the "MILITARY" column.

EDITOR NEEDED!

We need a new aircraft column editor. The responsibilities of the editor are to generate material on aircraft monitoring and also to receive input from the general membership. The editor must be an active aircraft listener and be knowledgeable with FAA publications, air traffic control procedures, terminology, etc. If you are interested, please type a letter telling about yourself to: RCMA Managing Editor, P.O. Box 216, Willow Grove, PA 19090.

EDITOR'S COMMENTS

Thanks to Michel LeCoupte (CAN-17), Eddie Muro (NY-41), David Beck (AL-1) Mark Wolfgang (MA-45) and Tom Heiderer (WI-6) for contributing to this months column.

QUESTIONS/CORRESPONDENCE

Michel LeCoupte (CAN-17) submitted the following publications which may be of interest to the members in Canada.

AEROSPACE CANADA; Maclean-Hunter Limited; 481 University Avenue; Toronto, Ontario M5W 1A7. Published quarterly.

AIRFORCE; Air Force Publications Limited; 424 Metcalf Street, Station A; Ottawa, Ontario K2P 2C3. $6 per year, published quarterly.

AIRPLANE SUPPLY CENTRE FLYER; 11040 Cambie Road; Richmond, British Columbia. Published semi-annually.

AVIATION QUEBEC; 5786 Avenue Christophe-Colomb; Montreal, Quebec H2S 2G1. $15 per year, published 10 times annually.

Aviation Statistics Centre; 15 Eddy Street; Hull, Quebec K1A 0N9 prints 8 publications dealing with airline and airport statistics. Prices range from $1.05-$30.

CANADA'S WINGS; Box 393; Stittsville, Ontario K0A 3G0.

CANADIAN AERONAUTICS AND SPACE JOURNAL; 60-75 Sparks Street; Ottawa, Ontario K1P 5A5. $30 per year, published quarterly.

CANADIAN AVIATION; Maclean-Hunter Limited; 481 University Avenue; Toronto, Ontario M5W 1A7. $13 a year or $24 for two years, published monthly.

THE CANADIAN AIRCRAFT OPERATOR; Box 669; Mississauga, Ontario L5M 2C2. $8 a year or $14 for two years, printed semi-monthly.

CANADIAN FLIGHT; Box 563; Ottawa, Ontario K1P 5P7. $6 a year, published 6 times a year.

FROM THE GROUND UP; Aviation Publishers; Station B, Box 1361; Ottawa, Ontario K1P 5R4. $9.95, printed approximately every 24 months.

ICAO BULLETIN; Box 400; Montreal, Quebec H3A 2R2. $15 a year, published monthly.

NORTH AMERICAN AVIATION NEWS; Malton Post Office, Box 72; Mississauga, Ontario L4T 3B5. $14 a year for North America, published monthly.

WINGS; Corvus Publishing Group; 203-2003 McKnight Boulevard; Calgary, Alberta T2E 6L2. $12 a year or $20 for two years, published monthly.

AIRCRAFT CONTINUE

Airline Publications Canada; 6205 Airport Road, Suite 204; Mississauga, Ontario L4V 1E3 publishes numerous books, request their catalog.

EDITOR'S NOTE: Airline Publications publishes some of the most interesting and unusual books that can be found anywhere. Members in the United States who desire a catalog should write to Airline Publications; 130 N. Fifth Street, Room 202; Middletown, Pennsylvania 17057. While we are on the subject of books, there are 3 aviation supply houses in the United States which sell books, charts and other aviation related items via the mail. Members who desire catalogs should write to the following addresses: 1. Pan American Navigation Service; 16934 Staticoy Street; Van Nuys, California 91409 2. Sporty's Pilot Shop; Clermont County Airport; Batavia, Ohio 45103 3. Aircraft Components; 700 N. Shore Drive; Benton Harbor, Michigan 49022.

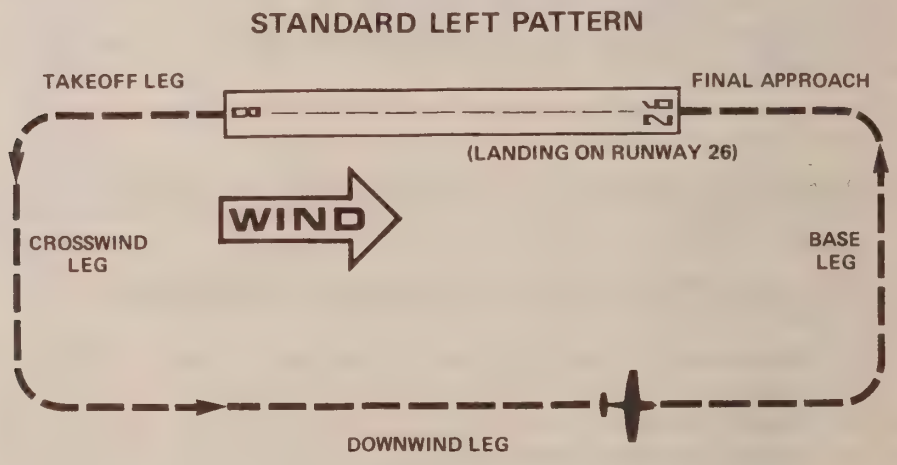
DEFINITIONS

HOLD SHORT "PIEDMONT 619 HOLD SHORT, LANDING TRAFFIC" At the end of each taxiway, a short distance from the runway are yellow lines designated for aircraft not to go beyond until further clearance is issued by the controller.

LEFT BASE/RIGHT BASE "SENECA 3323B LEFT BASE FOR RUNWAY TWO SIX" For traffic that is in a left traffic pattern, (all left turns) it is the 90 degree turn from left downwind to a flight path that is perpendicular to the landing runway. For traffic that is in a right traffic pattern, (all right turns) it is the 90 degree turn from right downwind to a flight path that is perpendicular to the landing runway.

LEFT DOWNWIND/RIGHT DOWNWIND "AZTEC 783GW IS LEFT DOWNWIND FOR RUNWAY TWO SIX" In a left traffic pattern, (all left turns) this is the leg parallel to the runway, but flown in the opposite direction of the landing runway. In a right traffic pattern, (all right turns) this is the leg parallel to the runway, but flown in the opposite direction of the landing runway.

TAXI INTO POSITION AND HOLD "TRANS AMERICA 863, RUNWAY TWO SIX TAXI INTO POSITION AND HOLD" The controller has given the aircraft permission to taxi onto the runway in use and get lined up on the runway centerline, prior to receiving take-off clearance.



U.S. AIR ROUTE TRAFFIC CONTROL CENTER MAILING ADDRESSES

Listed below are the mailing addresses of the 22 Air Route Traffic Control Centers in the United States for those who would like to request a set of sector frequency charts for the facilities in their area. Since the membership of the club has nearly doubled since they were printed this past January, here they are again.

AIRCRAFT CONTINUE

Albuquerque ARTCC
6900 Los Angeles Drive N.E.
Albuquerque, NM 87113

Anchorage ARTCC
5400 Davis Highway
Anchorage, AK 99506

Atlanta ARTCC
299 Woolsey Road
Hampton, GA 30228

Boston ARTCC
Northeastern Blvd.
Nashua, NH 03060

Chicago ARTCC
619 Indian Trail Road
Aurora, IL 60507

Cleveland ARTCC
326 E. Lorain St.
Oberlin, OH 44074

Denver ARTCC
2211 17th Ave.
Longmont, CO 80501

Fort Worth ARTCC
13800 FAA Road
Euless, TX 76039

Honolulu ARTCC
Box 4009
Honolulu, HI 96813

Houston ARTCC
Box 60308
Houston, TX 77205

Indianapolis ARTCC
Box 41070
Indianapolis, IN 46241

Jacksonville ARTCC
Box 98
Hilliard, FL 32046

Kansas City ARTCC
1801 E. Loula
Olathe, KS 66061

Los Angeles ARTCC
2555 E. Avenue P
Palmdale, CA 93550

Memphis ARTCC
3229 Democrat Road
Memphis, TN 38118

Miami ARTCC
7500 N.W. 58th St.
Miami, FL 33166

Minneapolis ARTCC
512 Division St.
Farmington, MN 55024

New York ARTCC
Islip MacArthur Airport
Ronkonoma, NY 11779

Oakland ARTCC
5125 Central Ave.
Fremont, CA 94536

Salt Lake City ARTCC
2150 W. 700 North
Salt Lake City, UT 84116

Seattle ARTCC
3101 Auburn Way South
Auburn, WA 98002

Washington ARTCC
Leesburg, VA 22075

FREQUENCIES

Eddie Muro (NY-41) reports that the New York Kennedy Airport Police operates on the frequency of 453.375, the New York Kennedy Airport Crash Crew operates on the frequency of 453.650, and the CBS Helicopter operates on the frequency of 450.050.

David Beck (AL-1) reports that Delta Airlines operates on the frequency of 460.825 for business purposes in Birmingham, Alabama.

Mark Wolfgang (MA-45) submitted the following frequencies for Boston-Logan Airport: Delta Airlines operates on 460.825, Maintenance 453.875 and 464.825, Fire 453.750, plus the airport is patrolled by Troop F of the Massachusetts State Police which uses the frequency of 156.015.

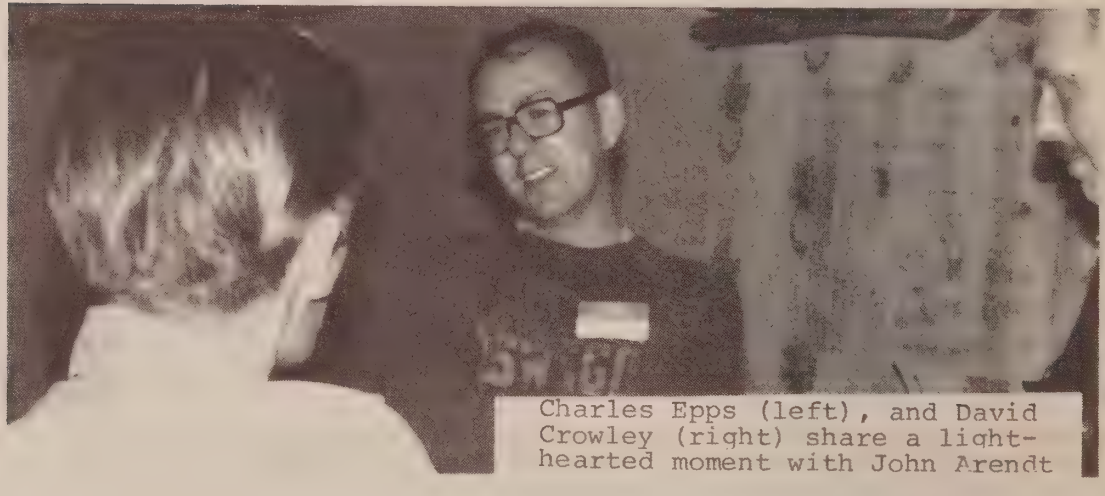
Tom Heiderer (WI-6) reports that Federal Express operates on the frequency of 131.925 and Check-Air, Inc. operates on the frequency of 130.3 in Milwaukee, Wisconsin. Tom also brought to my attention a typographical error which I made in the June column concerning some frequencies he had submitted: 130.55 is used only by Braniff, not by Hughes Airwest and Mississippi Valley as shown.

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 x 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to: Mike Redman, P.O. Box 1177, St. Charles, MO 63301.

MIDWEST SPRING FESTIVAL HIGHLIGHTS

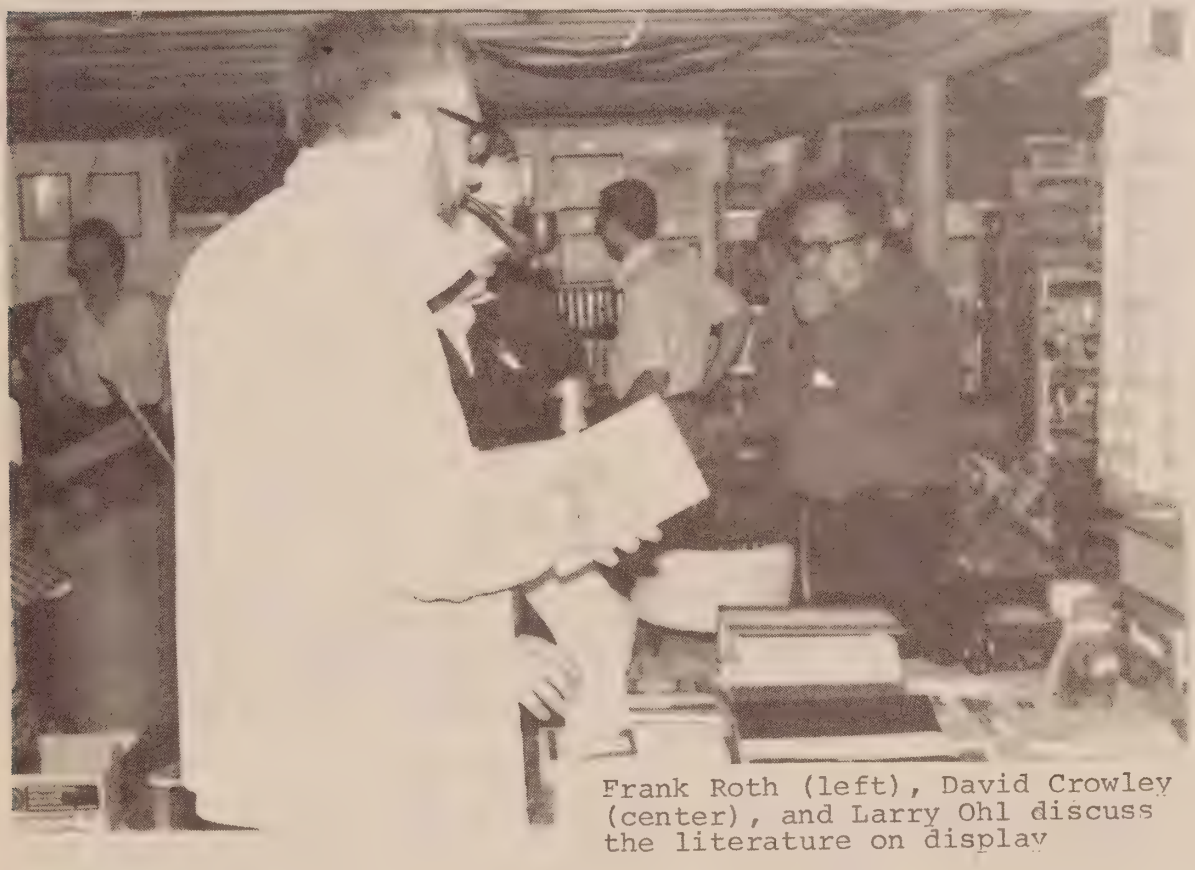
John Arendt lectures on the Illinois State Patrol



Charles Epps (left), and David Crowley (right) share a light-hearted moment with John Arendt

MIDWEST SPRING FESTIVAL HIGHLIGHTS

John Coker speaks on satellite and government monitoring



Frank Roth (left), David Crowley (center), and Larry Ohl discuss the literature on display

What Happenned On April 12th?

What happenned on April 12th? With the firing on Fort Sumpter, the Civil War began in 1861. The fire proof safe was patented by Charles A. Gayler in New York, in 1833. The catcher's face mask was first used in a baseball game in Lynn, Massachusetts in 1877. Buckensderfer, of Stamford, Connecticut patented the first portable typewriter in 1892. And the First RCMA Midwest Spring Festival was held in St. Charles, Missouri, in 1980!

This highly successful event was made possible by the following dedicated RCMA members: Charles Epps (CA-OR-031), John Coker (IL-010), John Arendt (IL-012), Larry Ohl (MN-011), Brad Leonard (MO-004), Rob Hupp (IL-036) and his friend Eileen Awe, Dave Crowley (MO-009), Tom Davidson, (KS-003), and Frank Roth (MO-014). And I was there too (Mike Redman, MO-002).

Guests began arriving as early as 9:30AM, and the festival got off to a rousing start at 1:00PM. I provided a taped introduction, which included a musical welcome, and you just can't imagine the lump in your throat when you hear the Goals of RCMA read to the backround of Pomp and Circumstance. If that wasn't enough to stir the soul, Iden Rogers provided an excellent recording for our RCMA friends.

Noted columnist John Coker (IL-010) provided a most enlightening discussion of satellite and government monitoring. We were fortunate to have such talent. My renowned co-editor John Arendt did a splendid job with fine handouts and a superb talk on the Illinois State Patrol.

My own presentation consisted of a slide show and talk on one of the large local Police Department radio networks, and a tour and explanation of my unique monitoring station.

There were many displays of monitor related literature, lists of frequencies, printouts, the famous Gene Hughes publications, and lots more! There was considerable time to intermingle, exchange notes and frequencies, and generally have a good time. Frank Roth said, "I had no idea there was so much literature on the subject." Larry Ohl left with renewed monitoring enthusiasm.

Dinner was served at 6:00PM, courtesy of Ginny's Fried Chicken of St. Charles. Well known columnist David Crowley served quite admirably as toastmaster. Following dinner was a general 'bull session' that lasted well past 11:00 PM.

Again, I would like to thank all who attended for making the Spring Festival such a successful event, and I hope to do it all over again next Spring. Perhaps this will renew interest in forming a local chapter in your area! We hope so. Be sure to send your next meeting's minutes and photos to John Clark at the Anaheim PO Box. Let's look forward to the 1981 Midwest Spring Festival!

MARKETPLACE

Members may advertise, free of charge, items wanted, items for sale and items for trade that are associated with the hobby of monitor radio listening above 30 MHz. No dealer ads accepted. Send to: Larry H. Brown, 1717 Leith St., Flint, MI 48506. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads in this column.

FOR SALE: Bearcat 250, used but like new. $190.00 money order or certified check only. Steve Handler (IL-001), Box 48, Deerfield, Illinois 60015. (312) 433-2802 days; (312) 498-1403 nites. Also send SASE for list of other items for sale. I am cleaning out my shack to make way for new equipment.

MARKETPLACE CONTINUE

WANTED: Would like schematic and/or info on converting Hallicrafter's model CRX-107 tuneable monitor to single or multiple crystal operation. Will pay postage and copying costs. Milton Phegley (CA-SD-025), 10400-241 Caminito Cuervo, San Diego, California 92108.

FOUND: Stellar Communications has the remaining copies of Signal 10-11. Price is $5.95 with a 10% discount for RCMA members. Add $1.00 for postage and handling in USA and Canada. California members add 6% sales tax. P.O. Box 546, Buena Park, California 90620. Signal 10-11 is a CHP (California Highway Patrol) frequency and unit I.D. book.

FOR SALE: (1) Bearcat 210, excellent condition with all accessories in original carton; $125.00. (2) Realistic Pro-12 Dual Band H/L portable scan (DC only), with accessories, antenna included; $50.00. (3) Realistic Pro-77A dual band H/L with accessories and I will supply a Realistic H/L indoor antenna; $25.00. Prices include shipping by UPS, certified checks or money orders only. Edward King (NJ-017), 14-31 Chandler Drive, Fair Lawn, New Jersey 07410.

FOR SALE: Regency ACT-R-10 10 channel scanner with 10 crystals and with two antennas. Asking $90.00 or best offer. William O'Connell, 3 Elm St., Concord, New Hampshire 03301.

FOR SALE: Regency Touch plus Regency Flight Scan (8 channel Touch, 20 channel Flight Scan) which are compatible for programming. $250.00; Tim Cantwell (MI-005), (313) 979-5950 call anytime.

The advertisement below is a non-paid ad arranged with the cooperation of SCAN. A similar ad for RCMA will appear in "Scanning Today". RCMA is grateful to SCAN for accepting our advertisement exchange idea.

RCMA Members! You should know about SCAN -- the Scanner Association of North America -- because we can help each other! In SCAN you may want to volunteer your expert knowledge in our Technical Advisor Corps to help newcomers to scanning. You'll surely enjoy our quarterly magazine with illustrated features by some of the top professional writers in electronics. Plus monthly bulletins, exclusive member co-op catalog and free classified ads to reach over 30,000 SCAN members coast-to-coast. Dues are just $10 per year. Mention you saw this ad in the RCMA Newsletter and take a $2 discount. Send $8 check or money order to SCAN, Dept. R, Suite 1212, 111 E. Wacker Drive, Chicago, Illinois 60601 Offer expires August 31, 1980.

contact/info wanted

The purpose of this column is twofold: 1) CONTACT --- It helps members to contact other members. If you want to meet, telephone or correspond with other members (by letter or cassette tape) in a certain geographic area or with members who have similar listening interests, this is the place to say so. 2) INFO WANTED --- This column helps members to obtain information directly from other members on various subjects related to two-way communications monitoring above 30 MHz.

Members who wish to contact you will do so directly, so be sure to give your phone number and best time to call and/or your address. Write to: Larry H. Brown, 1717 Leith St., Flint, MI 48506.

Ohio member would like to correspond with other Ohio members in large cities for exchange of active Federal Govt. frequencies. R.G. HARASTY (OH-046), 1965 Coltman Ave., Cleveland, Ohio 44106.

New member from Connecticut would like to copy all past RCMA Newsletter data on the Connecticut and New York area. He has access to a copy machine and would be happy to make copies for others desiring this info. Also in need of police codes for Connecticut and New York state police and willing to exchange information collected from western Conn. TOM OSENKOWSKY, 5 Beechwood Grove, Brookfield, Connecticut 06804.

I would like to know where to inquire to receive a copy of the Commercial Business Radio Directory. ROBERT MAWHINNEY, 33 Hopkinton Rd., Westboro, Massachusetts 01581.

Canadian member would like to correspond with other members (USA and Canada alike) for exchanging frequencies and information. Special intrests are: police,Army, and any data concerning the investigation of UFOs or any UFO related frequency. MICHEL LECOMPTE (Can-017), Box 33 St-Sauveur, Quebec City, P.Q. Canada 61K6U7.

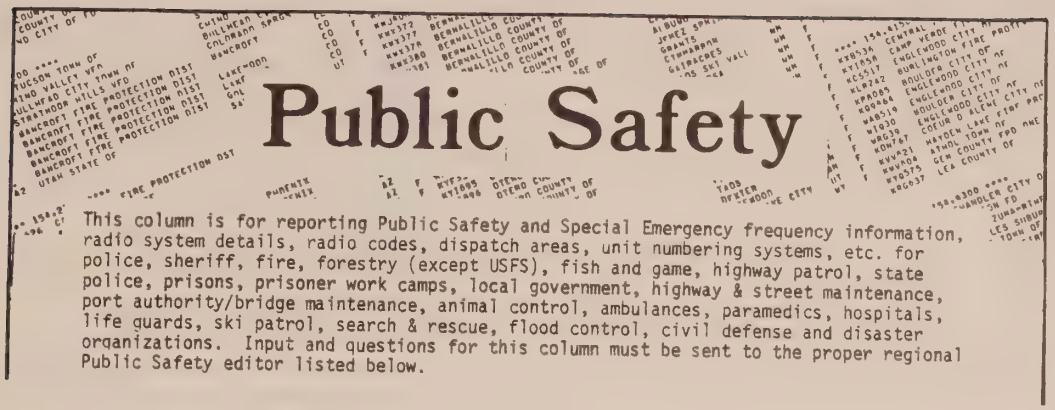
Information about the following would be appreciated: (1) Subscription information for Fire Command magazine; anyone have a sample? (2) Information about other publications dealing with firefighting and/or firefighting equipment. (3) Sources of pictures of firefighting equipment. (4) Dispatch codes and signals of the Hillsborough County, Fl. and Tampa, FL. fire departments. JOHN STANSEL (FL-043), P.O. Box 933, Bartow, Florida 33830.

I would like any information regarding any burglar/fire alarm company radio frequencies/callsigns/systems in North America. Of special intrest are: A.D.T., Burns, Honeywell, and Wells Fargo. All persons who contribute, please enclose a large SASE and you will be sent a copy of the listing. MARK COBBELDICK (FL-024), P.O. Box # 43-1982, Miami, Florida 33143.

New York member would like to correspond with any members of the RCMA in any state of the country, by way of letter or cassette tape. It makes no difference what the subject is about. TED HOWLEY (NY-029), P.O. Box 254, Pleasant Valley, New York 12569.

New Jersey member wants to know if anyone has any information on the Newark, New Jersey fire dept. frequencies, codes, or locations of each company. Member is a volunteer fireman in North Arlington, New Jersey, and would welcome sharing any and all info from members regarding their fire department. Info concerning coverage of the BC 250 (extending) and most suitable antennas for mobile and rooftop mounts would also be welcome. JAMES J. MIGUT (NJ-), 38 Schuyler Ave., N. Arlington, New Jersey, 07032.

Member is very interested in frequencies of the Georgia Bureau of Investigation. This is a special leg of the State Police and information is very hard to get. MIKE, 1007 Juniper St., La Grange, Georgia 30240.



Public Safety

This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for police, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

PUBLIC SAFETY - EAST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Connecticut, Delaware, District of Columbia, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia and West Virginia to: Richard Barnett, P.O. Box 428, Newton Highlands, MA 02161.

Hello again! My goadings must have worked these past months, for I am now receiving a steady stream of mail. Don't get the idea that this means you can slack off though. Can you believe it? I actually got a letter from South Carolina! I'll break out the champagne when I receive a letter from someone in that state's neighbor just to the north. I know Mayberry hardly ever finds a need to use its transmitter, but someone in North Carolina must know of some active frequencies. Anyway, I would like to thank Joe Lewis of Maryland for his excellent and continous flow of data in to me. Much of his work will be published in this issue. In the June issue I had two fine maps placed within my article. I personally thought that they looked great and perked up the look of the issue as a whole. I hope that these types of maps will continue to be mailed in. This past week the Tall Ships came into Boston Harbor and the monitoring was great. I listened in on the conversation between the Cast Guard, foreign Tall Ships and ships of the Second Fleet, all talking on different marine channels. The best monitoring though was that of the Metropolitan District Commission Police on 39.58 (duplex) and Boston Police operations on 460.350. Both agencies had many air-sea rescue vehicles patrolling, and the action was non-stop. Activities such as this and the Esplanade concerts make monitoring the metro Boston region fantastic. This shouldn't surprise anyone though as we all know that Boston is, by far, the all-around best city in the nation. Now that I'm through with the propaganda, let's get on with the frequencies!

MARYLAND

From Joe (MD-015):

DISTRICT OF COLUMBIA FIRE DEPARTMENT

Company or Division	Address
E-1, T-2, A-6, TAU-2, BFC-2	2225 M Street, N.W.
E-2	719 12th Street, N.W.
E-3, T-1, A-7	439 NewJersey Ave., N.W.
E-4, RS-2, Mobile 1	2531 Sherman Ave., N.W.
E-5, T-5	3412 Dent Place, N.W.
E-6/RS-1, T-4, A-5 -A-15	1300 New Jersey Ave., N.W.
E-7	1101 Half Street, S.W.
E-8, T-7, A-9; Mobile 9	1520 C Street, S.W.
E-9, T-9, Sal. Wag., S.L. Wag., Compressor	1617 U Street, N.W.
E-10, T-13	1342 Florida Ave., N.W.
E-11, T-6	1338 Park Road, N.W.
E-12, BFC-1	1626 North Capitol Street
E-13, T-10, A-11, TAU-1, A-14, Foam & Dry Chemical Unit	450 6th Street, S.E.

E-14, A-4	4801 North Capitol Street
E-15/RS-3, BFC-3	2102 14Street, S.E.
E-16, T-3, BFC-6, DFC	1018 13th Street, N.W.
E-17	1227 Monroe Street, N.E.
E-18, BFC-7	414 8th Street, S.E.
E-19, T-16, A-12	2813 Pennsylvania Ave., S.E.
E-20, T-12	4300 Wisconsin Ave., N.W.
E-21, A-2	1763 Lanier Place, N.W.
E-22, T-11	5760 Georgia Ave., N.W.
E-23	2119 G Street, N.W.
E-24, BFC-4	3702 Georgia Ave., N.W.
E-25, T-8	3203 M.L. King Ave., S.E.
E-26, T-15	1340 Rhode Island Ave., N.E.
E-27, Gas. Tank Truck	4201 Minnesota Ave., N.E.
E-28, T-14, BFC-5	3522 Connecticut Ave., N.W.
E-29	4811 MacArthur Blvd., N.W.
E-30, T-17, A-10, BFC-8	50 49th Street, N.E.
E-31/RS-4, FFA	2425 Irving Street, S.E.
E-32, A-3 A-13	550 Maine Ave., S.W.
Fireboat	

Department of Fire and Rescue Service Call Signs (Cont'd)

FM-1	Chief, Fire Prevention Division
FM-2	Assistant Chief, Fire Prevention Division
FM-10	Lieutenant, Fire Prevention Officer
FM-11	Sergeant, Fire Prevention Officer
FM-12	Sergeant, Fire Prevention Officer
FM-20	Lieutenant, Fire Prevention Officer
FM-21	Sergeant, Fire Prevention Officer
FM-22	Sergeant, Fire Prevention Officer
FM-30	Lieutenant, Fire Prevention Officer
FM-31	Sergeant, Fire Prevention Officer
FM-32	Sergeant, Fire Prevention Officer
FM-51	Sergeant, Fire Investigation
FM-52	Sergeant, Fire Investigation
FM-53	Sergeant, Fire Investigation
FM-60	Lieutenant, Public Education
FM-61	Sergeant, Public Education
FM-62	Sergeant, Public Education

Department of Fire and Rescue Service Call Signs

Unit 1	Director
Unit 2	Chairman, Fire Board
Unit 3	Chief, Division of Administrative Services
Unit 4	Program Development Officer
Unit 5	Lieutenant
Unit 6	Chief, Division of Operations Services
Unit 7	Fire Science Intern
Unit 8	Administrative Division Staff
Unit 10	Training Officer
Unit 11	Fire Instructor
Unit 12	Rescue Instructor
Unit 13	Academy Maintenance Technician
Unit 15	Training Staff
Unit 20	Communications Officer
Unit 21	Shift Supervisor - EOC

Unit 22	Shift Supervisor - EOC
Unit 23	Shift Supervisor - EOC
Unit 24	Shift Supervisor - EOC
Unit 25	EOC Staff
Unit 30	Emergency Medical Service Officer
Unit 31	Lieutenant, EMS
Unit 33	Paramedic
Unit 34	Paramedic
Unit 35	Paramedic
Unit 36	Paramedic

I have received a lot of information for the state of Georgia, but I also have been having much trouble sorting it all out. I thought the best way to present some of the Georgia data would be to just re-type, as best I can, the letters from the state.

GEORGIA

From Mike (GA-012)

Georgia Department of Natural Resources - Statewide Frequency List (very confidential)

Georgia Game & Fish Division - (mobiles, base):

Channel One - 31.10 - KIJ684 - (Manchester GA)
Channel Two - 31.14 - KIS684 - Also all statewide Parks

Channel Three - 42.02 Statewide low band to Georgia State Patrol base!

Some units that have high V.H.F. radios also have: 154.905 Statewide Sheriff's band
154.935 Statewide State band

Also some Game, Fish mobiles have their local Civil Defense or search-rescue freq. Our two units (Troup County) have the Troup County Rescue frequency of 154.34. The Game, Fish people are also working on a V.H.F. repeater link network to be installed statewide.

Georgia Forestry:

Statewide Frequency List: 159.33/159.360/159.39/151.145/151.280/151.370/151.400
and Environmental Protection 171.425.

All Georgia Forestry Units have helicopters, planes and usual equipment.

From Robert (KS-001):

Dear Richard,

One of your RCMA contributors asked about GBI (Georgia Bureau of Investigation) frequencies. I grew up down there and know that for a long time the GBI used 42.020 BM and 42.18 M. The Georgia State Patrol (GSP), moved off low band and switched to high band in the late 1950's or early '60's, but the GBI stayed behind. They may still be on low band as many counties still have 42.02 capabilities. My suspicion is, however, that with the general switch to high-band throughout Georgia, the GBI has gone along with the trend. In rural Georgia nearly all police transmissions can be monitored on just four frequencies: 154.68, 154.800, 154.905 154.955. The first two are GSP frequencies; the last tow are municipal and county police. GSP cars are equipped for both sets, providing instant intercommunication among law enforcement units. I would expect GBI to take advantage of this convenience, but the State of Georgia still uses 42.020 for certain purposes -- or at least they did when I was there last a couple of years back. So check low band. Unmarked (GBI) cars used to carry the same distinctive "P" license tags as GSP cars. It might pay to check the local GSP parking lot and copy the unit numbers off the tags, if the old system is still in use!

I'll never forget those old lowband channels. When I first became a ham in the mid 1950's, I operated using morse code on exactly half the GSP's frequency, that is 21.010 MHz. My second harmonic used to open and close the squelch on all their receivers! It took them several months to figure out what was going on, but when they did, I got a visit in a hurry! You can bet I bought a new transmitting crystal for another frequency without delay! Hope this helps you Georgia reader.

Editor's note: Thank you for you trouble as an out-of-regioner Mr. Rankin! That was quite a letter, and for the information of the members interested in the Georgia Bureau of Investigation channel, Lewis (GA-008) writes: "In the Savannah area, and I presume throughout Georgia, they use the state channels 154.905 for car-to-car and 154.935 for car-to-base. with the base transmitter."

OHIO STATEWIDE POLICE RADIO SYSTEMS

(Editor's note: Here's more of that fantastic Ohio list that Hugh OH-018 sent in - Will probably finish it in the next report or two)

Frequency	Assignment
45.220 Mhz	State institutions/mental hospitals correctional facilities...base/mobile
45.300	same as above...mobile
155.370	Intersystem...point to point...used by Highway Patrol/County Sheriffs. Used by some police agencies as a back-up frequency...mobile/mobile,base.
155.475	Nationwide Police Emergency Channel. Used for some Highway Patrol traffic,mobile only.

HIGHWAY PATROL...OHIO TURNPIKE DIVISION

Main dispatch....District 10,Berea mile post 159.4

Repeater frequencies	Location
155.685 Mhz/police	mile post 16
158.985 Mhz/maint.	mile post 79.7
	mile post 141.0
	mile post 198.6
155.790 Mhz/police	mile post 48.3
159.165 Mhz/maint.	mile post 106.7
	mile post 173.9
	mile post 228.1

Note: Radio traffic on police and maint. reptrs. is alternated to remove interference.

Example: Traffic broadcast on 155.685 will also be on 155.790.

Toll booths,tow trucks, plazas and maint.buildings are on the maintenance repeaters.

156.090 Mhz/maintenance supervisors (simplex) all above locations

State Patrol Zones: Turnpike Div.

Post 89 ...Swanton,Ohio	mile post 48.3	Indiana line to mile post 80
Post 90 ...Castalia,Ohio	mile post 106.7	mile post 80 to 160
Post 91 ...Hiram,Ohio	mile post 198.6	mile post 160 to Penn.line

Fire and ambulance service is by the local community through which the turnpike passes.

Tow truck/emergency road service zones (contracted to private companies)

Indiana line to mile post 35.8	Hutchinson's service	unit #400
35.8 to 70.9	Roser Automotive	unit# 420
70.9 to 113.0	Whitey's Auto	unit# 432
113 to 143.7	McCoy's Service	unit# 440
143.7to 178	Martyn's Service	unit# 450
178 to 203.5	Hogarth's Service	unit# 460
203.5to Pa.line	Passarelli Bros.	unit# 470 to 220mp/472 to line

Maintenance Zones:

Zone 1.....Indiana line to mile post 33.7
Zone 2.....33.7 to 64.5
Zone 3.....64.5 to 93
Zone 4.....93.0 to 125.2
Zone 5.....125.2 to 157
Zone 6.....157.0 to 183.2
Zone 7.....183.2 to 212.9
Zone 8.....212.9 to Penn.line

Maintenance Headquarters:

West Division....Elmore maintenance building mile post 79.7
East Division....Hiram maintenance building mile post 198.6

OTHER FREQUENCIES IN USE IN CUYAHOGA COUNTY, OHIO

CLEVELAND REGIONAL TRANSIT AUTHORITY (all repeater) KJP331

453.050 Mhz	security,traffic load assignments,maintenance
453.650	bus dispatch,control east,south
453.850	rail transit systems....three lines
453.900	bus dispatch,control west,south

channel assignments indicate where bus route originated.

RTA has three frequencies not yet in operation: 453.200 Mhz
Two channels are sched for security. 453.500
One for maintenance. They will be repeaters. 453.750
Sched on line June,July'80.

Cleveland Emergency Medical Service "C-Med" KJF 345
City of Cleveland paramedics. (simplex) 155.160 Mhz
Suburban ambulances to hospitals. (simplex) 155.340
Hospital to hospital. (simplex) 155.400
C-med operates as a county wide dispatch center. They handle most of the county medical emergencies tnrough a system using tone access to hosoital emergency rooms.

Cuyahoga Metro Housing Auth. security police 453.775 Mhz(repeater)

Cleveland Metro Park System police KZW 926(reptr)151.310 Mhz
this park system is county wide...radio units use only tne one radio freq. but have four tone controled"channels'!
The park is divided into zones.....

Zone A	Bradley Woods
Zone B	Huntington Reservation
Zone C,D,F,G	Rocky River Reservation
Zone E	Big Creek Reservation
Zone J	Hinckley Reservation
Zone R	Metroparks Zoo
Zone Q	Euclid Creek
Zone L	Bedford Reservation
Zone P	North Chagrin Reservation
Zone K	Brecksville Reservation
Zone M	South Chagrin Reservation

Cuyahoga County Sheriff KDE 701 39.540 Mhz channel 1
(simplex) 39.580 channel 2
Justice Center Jail Security 39.600 channel 3
KLU 943 453.875 Mhz (reptr) 39.740 channel 4

County Dog Warden KSN 858 (rptr) 461.050 Mhz

Cleveland State University KLR 233 155.655 Mhz police
KFA 282 151.745 maint.

UNIVERSITY CIRCLE Police KQI 392 151.895 Mhz
(security for Case/WesternReserve Univ. and museum areas)

CUYAHOGA COUNTY ENGINEER KQY 763,764 (repeaters)

channel	frequency	use
1	453.550 Mhz	administrative/shared with sanitary eng.
2	453.600	county-wide disaster/emergency
3	453.350	road maint.east/countywide heavy const.
4	453.700	road maintenance west,south

radio location codes:

100	Green road yard
200	Miles road yard
300	Dunaham road yard
350	Fitzwater road yard
400	Brookpark yard
500	York road yard
600	Fitch road yard
700	Bridge repair dispatch
800	Standard building..main dispatch

COLUMBUS, OHIO POLICE RADIO CODES

10-3	OFFICER IN TROUBLE
10-4	AUTO ACCIDENT (P.D.)
10-4A	AUTO ACCIDENT (H'SKIP)
10-5	AUTO ACCIDENT (INJURY)
10-6	SPEEDER OR HOT ROD
10-6A	AUTO OBSTRUCTING
10-6B	AUTO OVERTIME
10-7	B and E
10-7A	BUILDING OPEN
10-8	B and E IN PROGRESS
10-10A	STOLEN BICYCLE
10-10B	RECOVERED BICYCLE
10-11	CHECK FOR STOLEN
10-12	CHECK REGISTRATION
10-13	CHECK FOR TICKETS
10-14	CUTTING OR STABBING
10-15	CALL HOME
10-16	DISTURBANCE
10-16A	DISTURBANCE 1 MAN
10-17	DOMESTIC TROUBLE
10-18	D.O.A.
10-19	DRUNK
10-20	DROWNING
10-22	DOG COMPLAINT
10-23	ERRAND
10-45	STOLEN AUTO
10-45A	STOLEN AUTO RECOVERED
10-46	SQUAD RUN
10-47	SUICIDE
10-47A	SUICIDE ATTEMPT
10-48	SUSPICIOUS CAR
10-48A	SUSPICIOUS PERSON
10-49	VICE COMPLAINT
10-50	WANTED PERSON
10-50A	WANTED FELON
10-50B	FELON REGISTRANT (NOT WANTED
10-51	WAGON RUN
10-52	WRECKER RUN
10-53	SWITCH TO OTHER CHANNEL
10-54	WORK TRAFFIC
10-55	HOUSE WATCH
10-56	REQUEST FOR NUMBER
10-57	
10-58	
10-59	URGENT-NO RED LIGHT OR SIREN
10-60	EMERGENCY-RED LIGHT & SIREN
10-61	
10-62	
10-63	
10-64	
10-65	

10-23A	ESCORT (From Richard OH-035)
10-24	FIRE SQUAD
10-25	FIRE
10-25A	TRASH FIRE
10-26	FIGHT
10-27	HOSPITAL REPORT
10-28	HOMICIDE
10-29	JUVENILE COMPLAINT
10-30	LARCENY
10-31	MISSING PERSON
10-31A	MISSING PERSON RETURNED
10-32	MESSAGE
10-33	MAN WITH GUN
10-33A	MAN WITH KNIFE
10-34	TYPE OF COMPLAINT UNKNOWN
10-35	O.M.V.I.
10-36	OBSTRUCTION IN STREET
10-37	OFFICIAL OR VISITOR
10-38	PROPERTY DESTRUCTION
10-39	PROWLERS
10-40	RECOVERED PROPERTY
10-41	ROBBERY
10-42	ROBBERY IN PROGRESS
10-43	SHOOTING
10-43A	SHOOTING (TARGET,HUNTERS)
10-44	SEX CRIME

CLEARANCE DISPOSITION CODE

CODE 1	REPORT OR REPORT & CITATION
CODE 2	PARTY ADVISED OR NO REPORT NEEDED
CODE 3	ARREST MADE-PARTY TRANSPORTED TO JAIL
CODE 4	GOING TO OR CLEARING FROM HOSPITAL (USED BY TRANSPORTING CRUISER ONLY)
CODE 5	CLEARANCE FROM PARKING COMPLAINT
CODE 6	AUTO OR PROPERTY IMPOUNDED
CODE 7	NON-ARREST SITUATION (CHECKED AREA OR BLDG.,FI CARD,etc.)
CODE 8	MESSAGE DELIVERED OR ERRAND COMPLETED
CODE 9	NON-ACTION SITUATION (PARTY GONE,BAD ADDRESS,etc.)
CODE 10	MISCELLANEOUS SITUATION CLEARANCE (FIRE/SIGNAL O ,CLEAR FROM NUMBER,etc.)

GENERAL INFORMATION

A NUMBER PRECEDED BY 'SIGNAL' (i.e. Signal 220 CALL THAT STATION BY TELEPHONE.

A NUMBER FOLLOWED BY THE LETTER R (i.e. 220R) REPORT TO THAT STATION IN PERSON.

ALL TRANSMISSIONS WILL BE BRIEF,CONCISE, NECESSARY, AND TO THE POINT.

ALL UNITS WILL RESPOND WITH THEIR CALL NUMBER & LOCATION WHEN CALLED BY RADIO. EXCEPTIONS ARE SUPERVISORS AND PERSONNEL IN UNMARKED CARS,WHEN DISCLOSURE OF THEIR LOCATION WOULD INTERFERE WITH THEIR ASSIGNMENT.

ALL PERSONNEL, WHEN GOING OUT OF SIGHT OR HEARING OF THEIR RECALL OR RADIO,OR IN THE ABSENCE OF A RECALL ON THEIR VEHICLE, SHALL MARK BUSY BEFORE LEAVING THE CAR, GIVING THEIR LOCATION.

NO RUNS WILL BE MADE ON AN EMERGENCY (10-60) UNLESS AUTHORIZED BY THE RADIO DISPATCHER.

PUBLIC SAFETY - CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alabama, Arkansas, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Oklahoma, South Dakota, Tennessee and Texas to: Mike Redman, P.O. Box 1177, St. Charles, MO 63301.

Send material and questions for Illinois, Indiana and Wisconsin to: John Arendt, 327 Boulder Hill Pass, Oswego, IL 60543.

Greetings! Welcome! First let me congratulate our new Editor, Chuck Gysi- I am sure he will carry on the fine tradition of the RCMA Newsletter begun by Iden Rogers. And many thanks and a 'job well done' to Iden, our retiring Editor. On to chapter news.

RCMA CHAPTERS NOW FORMING

The Ohio Valley Chapter- if you live in southern Indiana, nortern and western Kentucky, and southeastern Illinois, contact Dave Nugent (IN-002), 2542 Birk Ave., Jasper, Indiana, 47546; or call Dave at 812-482-2352. Let's help Dave get this chapter off and rolling!

The Chicago Area Chapter- if you live in Northern Illinois, northwestern Indiana, eastern Iowa, southern Wisconsin, and southern Michigan, contact Ed Sirovy (IL-004), 311 S. Williams St., Westmont, Illinois, 60559. This should be our biggest chapter yet!

The St. Louis Area Chapter- if you live in the Metropolitan St. Louis area in or near the counties of Lincoln, St. Louis, St. Charles, Franklin, or Jefferson in Missouri, or Jersey, Calhoun, Madison, St. Clair or Monroe in Illinois, contact me, Mike Redman, P.O. Box 1177, St. Charles, Missouri, 63301, or call 314-946-4331. Write today!

We'll repeat these chapters and contacts each month for awhile until they become well established. Interested in forming a chapter in your area? Ed Sirovy can help you get started, and if it's in my 'PS-Central' area, I'll give you the space. Let's get organized!

OKLAHOMA

JOE (MD-015) has provided this directory for the Oklahoma City Fire Department showing apparatus locations:
Two primary administrative offices are located at:
820 Northwest 5th, and 600 North Portland

Station 1	820 Northwest 5	Station 17	2716 Northwest 50
Station 2	2917 E. Britton	Station 18	700 Northeast 36
Station 3	11601 N. MacArthur	Station 19	940 Southwest 44
Station 4	1245 Northwest 2	Station 20	3801 Northwest 10
Station 5	22nd/N. Broadway	Station 21	3240 Southwest 29
Station 6	620 Northeast 8	Station 22	1105 W. Britton
Station 7	2500 S. Harvey	Station 23	2812 S. Eastern
Station 8	1939 Exchange	Station 24	4529 Northwest 36
Station 9	1415 Southwest 89	Station 25	2640 Southwest 59
Station 10	2039 Northwest 16	Station 27	N.E. 63/Post Road
Station 11	900 Northwest 50	Station 28	S.E. 59/Westminster
Station 12	2121 N. Eastern	Station 30	4343 Lakeshore
Station 13	6901 Southeast 74	Station 31	618 N. Rockwell
Station 14	3129 Northwest 23	Station 32	12233 N. Mustang
Station 15	2817 Northwest 122	District Chiefs: 601-Station 1, 602-Station 5, 603-Station 6, 604-Station 30, 605-Station 9	
Station 16	405 Southeast 66		

Many thanks, Joe, for that interesting list.

KANSAS

Some tidbits from BOB (KS-001), and KURT (KS-006):
Kansas City International Airport Repeaters:
F1 453.425 Security, F2 453.500 Maintenance & Security
Kansas City Missouri Police Intelligence- Repeater on 460.300
Sensitive? Not any more- they have DVP. Oh well....

IOWA

Information from MIKE (IA-011) updates information on the Iowa County communications plan previously printed in the January column.

F1	Operations	frequency varies	base/mobile
F2	Information	frequency varies for base/mobile: 155.91 or .415	
F3	Portable	155.850	mobile/hand held
F4	Mutual Aid	155.475	base/mobile
F5	LEA	frequency varies	repeaters

Additional Iowa notes:
Scott County utilizes information channel 155.580 B/155.415 M
All counties listed have information channel (mobile) of 155.910
Jones County utilizes 155.610 for information channel

County	Frequency (Ops)	Frequency (Info)	Call Sign
Johnson (52)	154.725	155.250	KGT462
Linn (57)	155.145	155.610*	several
Washington (92)	154.725	155.250	KAA474
Louisa (58)	154.830	155.310	KAA412

*mobile on same frequency as base- 155.910 car to car
Clinton Iowa Park Dept. 155.085 KFX272
Clinton Iowa Misc. Units 155.955 KJL652

County Secondary Road Departments:

County	City	Frequency	Call Sign
Cedar	(Tipton)	159.000R/151.055 In	KBF383
Clinton	(DeWitt)	151.115R/159.060 In	?
Jackson	(Andrew)	158.835R/153.935 In	KRJ868
Muscatine	(Wildcat Den)	151.130R/156.165 In	KSM836
Scott	(Eldridge)	37.98B/M	KAG924

Bettendorf, Iowa:

F1	Police Dispatch	460.375 R	KAB263
F2	Davenport PD Liaison	460.150 R	KTA976
F3	Car to Car	460.375 M	
Quad City Net		155.370 B	KAB263
Mutual Aid		155.475 M	KAB263
Volunteer Fire		155.805 B/M	KAP250
Misc. City Departments		155.925 B/M	KJP438
Transit Department		453.475 R	KVV536

Mike advises that Police and Fire are dispatched from the same location, using the standard 10-code. Channel 2 is little used- used mostly for high speed chases.

TEXAS

JOE (MD-015) has provided these channels for the Dallas/Fort Worth Airport:

F1	460.350B/465.350M	KXR734	F4	453.800B/M	KTZ358
F2	460.450B/465.450M	KXR734	F5	458.050B/M	KTZ358
F3	453.050B/M	KTZ357	F6	465.350B/M	KTZ358

Also from JOE (MD-015), the following Fire Station Directory for the Dallas Fire Department.
Administrative offices: 2111 Main St.
Maintenance Shops: 2600 Chalk Hill Rd.

Station 1	2328 Ross Ave.	Station 33	754 W. Illinois Ave.
Station 3	500 N. Oakland	Station 34	8003 Lake June Rd.
Station 4	816 S. Akard St.	Station 35	3822 Walnut Hill Lane
Station 5	3801 Parry Ave.	Station 36	3241 N. Hampton Rd.

Station 6	2808 S. Harwood St.	Station 37	6742 Greenville Ave.
Station 7	706 E. Tenth St.	Station 38	2816 E. Illinois Ave.
Station 8	1904 N. Garrett St.	Station 39	10750 Shiloh Rd.
Station 11	3828 Cedar Springs	Station 41	5920 Royal Lane
Station 14	1005 W. Twelfth	Station 42	3333 W. Mockingbird Lane
Station 15	600 N. Bishop	Station 43	2844 Lombardy Lane
Station 16	2616 Chalk Hill	Station 44	4114 Frank St.
Station 17	6045 Belmont Ave.	Station 45	716 W. Commerce St.
Station 18	1001 McKinney	Station 46	331 E. Camp Wisdom Rd.
Station 19	5600 E. Grand	Station 47	7161 Envoy Ct.
Station 21	3210 Love Field	Station 48	10480 E. Northwest Hwy.
Station 22	12200 Coit Rd.	Station 49	4901 S. Hampton Rd.
Station 23	1735 Ewing South	Station 51	200 S. St. Augustine
Station 24	2426 Hatcher St.	Station 52	2504 Cockrell Hill Rd.
Station 25	4607 S. Lancaster	Station 53	1407 John West Rd.
Station 26	3303 W. Jefferson	Station 54	6238 Bonnie View
Station 27	8401 Douglas Ave.	Station 55	6600 Trammel Dr.
Station 31	9365 Gartland Rd.	Station 56	7040 Belt Line Rd.
Station 32	7007 Benning Ave.		

DAVID (TX-032) and KEN (TX-003) have sent massive contributions on areas of Texas. Having been backed up several months already on this material and material used elsewhere in the column, I won't have room this month, but have no fear, it will make its way into the column next month. David has divided material into state planning regions, and then further divided it into counties. Each month, we'll take a look at a county or two as space permits. Ken has volunteered to write a story on the Texas State Patrol communications system, and I will squeeze in the first installment on this right here:

I have been asked by our Public Safety-Central editor to write an article on the frequencies used statewide in the great State of Texas. I hope that I live up to everyone's expectations.

Before I begin let me introduce myself. I am Ken Pehl, TX-003. I have been an active monitor listener for almost six and one-half years. I hope this article will provide some help to those looking for information. This article is hardly complete. Additions, corrections, and error detection as well as other input are encouraged and invited. It is hoped this article will provide an incentive to send further information into the newsletter and share what knowledge you, the reader, have gathered.

To begin, let us start with a short course in the various jurisdictions. On the state level, law enforcement is provided by the Texas Department of Public Safety (DPS). The DPS is composed of many divisions but can basically be summarized as being two main enforcement operations--traffic related law enforcement and criminal law enforcement. Traffic law enforcement is mainly provided by the Texas Highway Patrol, one of the DPS' divisions. Other traffic related divisions are the License & Weight Division (mostly concerned with trucking regulations), the Motor Vehicle Inspection Division, and the Drivers' License Division. Criminal law enforcement operations are mainly through the Texas Rangers, an investigative agency that under takes major crimes investigation or cases involving multiple jurisdictions or when assistance is requested by a Sheriff Dept or Police Dept. The other major criminal enforcement division of the DPS is the state Narcotics Division. There are various other divisions of the DPS, the most important to a monitor listener being the Communications Division, which serves all the other divisions with statewide radio and other communication networks.

The DPS generally enforce traffic regulations outside of incorporated municipalities, leaving the incorporated area to that muncipal's police dept. Criminal law enforcement is generally statewide, regardless of jurisdiction. The county Sheriff Office (SO's) (or Sheriff Dept-SD- both forms are used interchangeably) normally handle calls for service outside of incorporated areas but within their county. The SO's normally are not involved in traffic regulation, leaving that job to the DPS.

The Texas Dept of Public Safety frequencies are as follows:

155.460 -Statewide- bases to mobiles. Also used mobile to mobile.
154.680 -Statewide- mobiles to bases. (paired with above frequency).

In many respects this system is similar in the base to mobile and mobile to base useage in many other states' systems. This split frequency useage is a popular form especially with low band systems. There are no other frequencies, such as district nets, except as noted below. These primary frequencies are used statewide and all divisions use this system. As pointed out in the April issue of this column, in DPS vehicles:

ch. 1= 154.680 T / 155.460 R--this is the normal mobile to base mode
ch 2 = 155.460 T / 155.460 R--this is the mobile to mobile mode. Can also be used for mobile to base in the event of a malfunction of the base's 154.680 receiver. Also can be used base to base, although this mode would be secondary to teletype and telephone.
ch. 3 = 154.950 T / 154.950 R--this is the intercity system, mobile to mobile mode.
ch. 4 = 154.950 T / 155.370 R--this is the intercity system, mobile to base mode.
ch. 5 = Frequency varies-- In certain traffic law enforcement vehicles this would be the resident county SO freq.
ch. 6 to ch. 8 = reserved for future expansion.

There are additional frequencies used by the DPS bases as described below. Steve, TX-021, contributed a piece of news of a 159.09 repeater in the May column. This 159.09 repeater is actually a part of the DPS' VHF relays. Mobiles that are distant from the base are rebroadcast on high band repeaters. If you would listen to these relay repeaters, you would find there is only one side of a communication to be heard, that is, the mobiles as they are talking back to the base. The relays rebroadcast the mobile's transmission. The relays are usually located at radio dead spots and at various locations just outside the normal range of a primary DPS district station's radio site. In essense, these relays extend the radio coverage range of the basic base station. These relays will be on one of two frequencies--either 159.09 or 159,210. Co-located at the same site as the relays is a remotely operated 155.460 base transmitter. This remotely operated transmitter is keyed on and modulated by a control transmitter back at the primary radio station site (probably through the use of beam antennas. Can anyone confirm this idea?). This control will be on one of two frequencies--either 154.665 or 154.695. Some stations use one frequency, while other stations use the remaining freq. It is presumed each district station has only one remotely operated site under its jurisdiction but there are a few possible exceptions to this, if the licenses are anything to go by. One theory is that stations that have a 159.09 relay under its operation will have a 154.665 base control freq and stations with a 159.21 relay have 154.695 as the base control. The two frequencies being paired up together in the manner described. The other theory is that the relay's frequency is staggered around so as to minimize interference with each other when some relays happen to be in close proximity to each other. That is, one relay will use one frequency and the next one down the line will use the alternate frequency while the next on down uses the first frequency again, etc. Can anyone confirm?

When looking at the above mentioned frequencies in POLICE CALL listings consider only those frequencies marked "RP" for 159.09 and 159.21 and only those marked "CO" for 154.665 and 154.695. Those marked "CO" on 159.09 refer to older licenses when the DPS' low band system was still operational. The old low band remote base transmitters were keyed on and modulated by 159.09 controls but those days are over.

The criminal law enforcement division have their own frequency (ies?). In view of the nature of their operations, it would be inappropriate to list their frequency(ies).

The DPS unit numbering system has not been entirely solved by this author. However, a tentative outline of the system follows. Bear in mind this is only a theory and is subject to change as more members report their findings and additions, changes, and corrections are provided. Units are three or four digit numbers, pronounced either singly or in convenient double digit blocks. Basically, four digit units are those divisions that are administratively divided into regions rather than out of main headquarters-Austin and are mostly, if not all, traffic law division units. Three digit units are those divisions and units headquartered in Austin, exceptions are possible, and are statewide or are administrative units.

The four digit numbers are comprised as follows:

The first digit indicates the region served:

Region 1 Dallas
Region 2 Houston
Region 3 Corpus Christi
Region 4 Midland
Region 5 Lubbock
Region 6 Waco

The second digit indicates the service division

1 -- Highway Patrol Division
2 -- Highway Patrol Division
3 -- Highway Patrol Division
4 -- Highway Patrol Division
5 -- Special Education Division
6 -- License & Weight Division
7 -- Motor Vehicle Inspection Division
8 -- Communications Division (mostly supervisors)
9 -- Drivers' License Division

The third digit represents the district within the region and apparently varies with the service division. Each service division apparently having different district lines. So far as can be determined the exception to the above are units with a zero in the third place--representing supervisory personnel. Generally the lower the last digit (see below), the higher the rank.

The fourth digit describes the individual officer or the individual vehicle. In instances where the zero is in the third position of the unit number, the last digit then represents the supervisor's district number.

The three digit units are the most difficult to generalize. Here is a possible rundown:

100's --Administrative units (including aircraft of the DPS)
(Note: Unit 100 is one of the DPS helicopters).
300's --Administrative
500's --Communications Division's radio technicians
600's --Texas Rangers
700's --Texas Rangers

There are also 7000 and 8000 series units used by the DPS on the radio. These 7000's and 8000's units should not be confused with another state agency unit series described further on in this article. These DPS series numbers are best described as being miscellaneous units, with these series falling generally into two classifications--either they are county SO units that have been selected to be given a DPS radio call number or they are Special Rangers. While most 7000's are SO units and 8000's are Special Rangers, it is not necessarily that way as it can be vice versa. The use of DPS co-ordinated unit numbers for certain SO units dates back to the time of the DPS' old low band radio system. These 7000 series units may no longer be valid.(?)

That's a great opener, Ken, and be sure to check next month's column as Ken discusses the Texas Intercity Network. And here's what you've all been waiting for, John Arendt!

Greetings from the "Land of Lincoln". Cool spring weather has not made for the greatest reception here, but warmer summer temperatures bring the promise of improved reception. The "mailbag" has been a little on the lean side, but some of my handy work should make up for that.

The real news this month concerns my favorite "public service subject" - the Illinois State Police. I recently had the pleasure of meeting the I.S.P. Dist. 5 - Joliet commanding officer Capt. Hornyan. After a brief descussion about radio communications and related subjects - including my visit to Dist. 5A in April - I was given a personal invitation to a private open house at Dist. 5 on May 18. As my wife was unable to go along for the visit, fellow club member Ron Smithberg (IL-009) and his son accompanied me and my son. My findings are given in the following story:

RCMA MEMBERS TOUR OF I.S.P. DIST. 5 - JOLIET Upon entering the premises, we were met by the operations officer (Sgt. Oltman). After explaining "our" reasons for visiting, we were told to enter and that Capt. Hornyon would be found inside. We did tour the premises and found the Capt. and his wife in the canteen area - preparing some refreshments for the open house. Having met this man only once before - I was recognized immediately by name and welcomed. (A warm but somewhat awkward feeling). Everything was found to be in apple pie order - the remodeling being an example of "well-spent taxpayers money" (in these inflationary times, a hard thing to say).

One area of interest proved to be the radio dispatching area. Being able to observe console operations and the CRT displays proved to be most fascinating. All transmissions are recorded on slow speed tape (for future reference). Teletype printouts are also available. (Troopers wanting "hard copies" can have the information saved for later reference). A microfiche reader and card file is also located nearby - should the "computers go down". The secret to this very successful operation lies with the very congenial and friendly dispatchers plus the "less than formal" airwave atmosphere. (Quite a bit different than the "business as usual" atmosphere found just about everywhere else. A different type of "rapport" being established - tends to make the ordinary day to day routines somewhat easier".

For the "radio communications" end of the tour, the real highlight was a visit to the radio repair area, and nearby transmitter location. Radio Technician Engelke was on hand to meet and greet visitors. After introductions, this man started answering our questions to the best of his ability. (He did provide some answers to some "mind-boggling" questions about I.S.P. radio). Truly, Technician Engelke was a most open, candid, and fascinating person - a pleasure to make contact with and definitely an asset to any law enforcement organization.

Upon completion of our "tour" of the facilities, we returned to Capt. Hornyan's location and thanked him for the excellent opportunity to visit Dist. 5 Headquarters. A follow-up thank you letter was promptly dispatched. This editor definitely agrees that people of this calibre make our monitoring hobby most enjoyable. (I only wish there were more like them around the nation). Again - thank you Capt. Hornyan, Technician Engelke, and to all the folks at Dist. 5 for a wonderful and most interesting visit.

Information gathered as a result of my conversations with Capt. Hornyan and Radio Technician Engelke is summarized as follows:

1. NEW DIST. 5A HEADQUARTERS will be built near the intersection of I-80 and IL-178 just north of Utica. There is a possibility that a new district could be created.
2. NEW DIST. 11A HEADQUARTERS in the Litchfield area is also in the planning stages. Again, the possibility of a new district arises.
3. NEW "HF2" FREQ. FOR DIST. 5 (and 5A) will be 154.920. Cutover will probably occur around June 1. (Editor's note: Most needed - the 42MHZ freqs. get very busy at times. Excess traffic has to be handled on 155.460 "HF4" or "Channel 7" - tieing up a statewide freq.).
4. NO SCRAMBLING PLANNED for IL state law enforcement radio at this time. (Remember - we're hobbyists and we strictly follow the "Rule 605". Let's

not spoil it for everybody). There have been some experiments with voice scrambling tried from time to time. (Last summer this editor did observe some DOI units using "speech inversion" type), but all work is "in the clear" at present.

5. I.S.P. Dist. 14 & 14A FREQS. The correct 42 MHZ car - base freq. is 42.70 MHZ. The "HF2" freq. in use is 154.680.
6. DEPT. OF CONSERVATION uses 31.98 as a fire control freq. only. (Best results will be obtained on 31.86).
7. PSAP (or 911) fFREQ. 155.055 is confirmed as a PSAP freq. The 154.710 freq. is still up for grabs at present. More info will be made available when obtained.

--

Now it's time to "open the mailbag" and pass on member's contributions that have been received during the last month.

MINOOKA, ILL. P.D. Your editor has occasionally heard the mobile unit operating on the Dist. 5 low band freqs. (42.70 mobile and 42.50 car-car) using the unit #"M43".

BOLINGBROOK, IL. P.D. Ron (IL-009) reports that dispatch activity can now be found on new 155.250 (used to be the published 155.430). Chit-chat freq. for mobiles is 156.150.

WILL COUNTY, IL. S.D. Ron (IL-009) also advises that the present 39MHZ communication system will be replaced by a new repeaterized VHF high band or UHF system, including hand-held units. Also to be acquired will be a "mobile base station with freqs. able to communicate with all local police and fire depts.

WAUKEGAN, IL. AREA SWITCHES TO UHF Ron (IL-083) sent in new police and medical freqs. as follows:

Waukegan PD now using 470.3125
North Chicago PD now using 470.4625
Zion PD now using 470.5125
Waukegan area medical telemetry on 463.050 & 468.050

HOMETOWN, IL. NEW LOCAL GOVT. FREQ. Jeff (IL-064) called in recently and advised that 154.055 was placed into service for civil defense (and public works) use. KVB296 is the call sign - with a base, 6 mobiles, & 8 hand-helds.

Moving on to Indiana - I did not receive any contributions as such. Mark (IN-014) did send in a request for info in the Indianapolis and Marion County area. Surely, we've got some members down that way. The "Indy" area should have some excellent listening. How about it - you folks down in Indy?

Finishing off with Wisconsin, Bob (WI-001) has sent in some Wisconsin State agency material:
WISCONSIN CRIMINAL INVESTIGATION BUREAU can be found on the 460.400 repeater freq.
WISCONSIN HIGHWAY DEPT. FREQS. Using 47.32 repeater output (151.040 input).

Speaking about Wisconsin - again a lack of mail from that state. Surely something has to be going on in the Milwaukee area. Some Milwaukee area information for this column would be a welcome and pleasant surprise.

I sincerely hope that all the m embership is enjoying the summertime (and related outdoor activities). Don't forget the hand-held scanners and/or the programmables on those vacation trips. Until next month,

Happy Monitoring!

Boy, we've taken more than our share this month, but it's all due to the great letters and contributions that John and I are getting. See you next month, and keep up the good work!

PUBLIC SAFETY - WEST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming to: Lyle Galdiera and Bob Gehri, 3205 SW Corbett, Portland, OR 97201.

Send material and questions for California to: Eric Christensen, 2360 Brentford Rd., San Marino, CA 91108.

PUBLIC SAFETY - WEST, CALIFORNIA - Eric Christensen, Editor

From RICHARD (CA-SF-002):

FIRE DEPARTMENT-City of San Francisco

NEW!!! 488 MHz UHF Radio System

Dispatch	Handheld Radios	San Francisco Schools
488.3625 R	489.1625 S	489.1125 R
488.5625 R	489.1875 S	
488.7625 R		

NOTE: These new frequencies are to replace San Francisco Fire Department's old VHF High Band system on 154.43 MHz. Apparently, the new system was to have been operational by now, but isn't. Listen on 154.43 MHz, plus these new frequencies for the time being. ATTENTION S.F. area members: When the new system is fully operational, PLEASE send channel numbering info, etc. (was not available at this writing). Thanks. ERIC (CA-LA-045).

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From BASC (Bay Area Scanner Club):

NEW LAW ENFORCEMENT RADIO SYSTEM FOR SAN MATEO CITIES & COUNTY AGENCIES

Gary Mondfrans (BASC) reports that all of north San Mateo County is now operating on the new UHF frequencies with the exception of Hillsborough P.D. which is now having primary operations on the old Freq. 1: 159.15 MHz. used jointly with San Bruno, Millbrae, and Burlingame. They had been experiencing interference on the old Freq. 2: 158.865 MHz., which had been the real primary for the burg. Here's a further rundown:

COUNTY-WIDE SYSTEMS

488.9875	R	Sheriff's Office Primary Frequency. Also Half Moon Bay P.D. and Brisbane P.D. nights & weekends.
488.8875	R	County-wide Mutual Aid Channel # 3 on all radios (city & county) Also known as "Green" channel, but this designation will be abandoned. This is also the main second channel of all Sheriff's units. New 666 procedures are in effect on this frequency, all under control of COUNTY CONTROL.
488.8625		TAC 1 (Second channel for Northern agencies)
488.7125		TAC 2 (Second channel for Central county agencies.)
488.5375		TAC 3 (Second channel for South county agencies, operational but not in use yet by any city agencies.)

LOCAL SYSTEMS

488.9375	R	Daly City P.D. Station 35
488.3875	R	Brisbane P.D. Station 34 (uses SMSO nights & weekends)
488.7375	R	Pacifica P.D. Station 36 (Santa Clara Transit also on this freq.)
488.4625	R	South San Francisco P.D. Station 31, Broadmoar P.D. Station 32, and Colma P.D. Station 33. (Joint Dispatch)
488.7875	R	San Bruno P.D. Station 30, Millbrae P.D. Station 29 (Channel 1 R)
	S	Also Channel 6 Simplex Car to Car.

PUBLIC SAFETY - WEST, CALIFORNIA CONTINUE

489.0875	R	Burlingame P.D. Station 28
488.9375	R	San Mateo P.D. Station 25/Foster City P.D. Station 26 (Channel 1)*
488.3125	R	San Mateo P.D. Station 25/Foster City P.D. Station 26 (Channel 2)
	S	Also Channel 6 Simplex Car to Car. *NOTE: Joint dispatch by SMPD 25.
488.3875	R	Half Moon Bay P.D. Station 37 (uses SMSO nights & weekends)
488.3875	R	East Palo Alto Sheriff's deputies
488.3875	R	Sheriff's Substation at San Francisco International Airport (frequency may change in the future.)

Hillsborough P.D., Menlo Park P.D., Atherton P.D., Redwood City P.D., San Carlos P.D. and Belmont P.D. are still on the old VHF channels; although some cities may have new consoles installed already. A case in point, Redwood City is building a new communications center in the basement for joint dispatch of Police and Fire. With the new communications equipment, San Carlos "sounds" different. All P.D.'s are using official designators, although Daly City seems lax at times.
As of March 1, 1980, San Bruno P.D. will be dispatching San Bruno Fire. Due to problems with the HT's in cars, all San Bruno units will be equipped with "convertacoms". Some vehicles will have mobile radios with scanners built-in to monitor other P.D.'s channels.
Palo Alto P.D. is getting two new frequencies, most probably to talk direct to Mountain View P.D. and also the CLEMEX channel on 482.3375 MHz. This frequency is used by local P.D.'s in the San Jose area (except San Jose P.D. which operates on 460 MHz.) operating on 482 MHz. for mutual aid and coordination.
BIZZARE FREQUENCY DEPARTMENT: San Pablo P.D. may be on C.B. radio. A B.A.S.C. member reports that if you can't hear S.P.P.D. on their Police freq., try C.B.!

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From CRAIG (CA-VE-011):

Fire Frequencies in use in San Luis Obispo County

154.37 MHz.	Atascadero FPD
154.31 MHz.	San Luis Obispo Fire Dept.
154.385 MHz.	San Luis Obispo County Fire Depts.
151.325 MHz.	California Department of Forestry

NOTE: Public Safety Radio System details will be printed in September 1980 issue of the R.C.M.A. Newsletter, regarding San Luis Obispo and Santa Barbara County Law Enforcement and Fire Communications Systems. ERIC (CA-LA-045)

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CALIFORNIA HIGHWAY PATROL

BREVITY CODES

From PATRICK (CA-AL-023):

10-1 Reception Poor
10-2 Reception Good
10-3 Change Channels
10-4 Message Received
10-5 Relay Message
10-6 Busy, Stand By
10-7 Out-Of-Service
10-8 In-Service
10-9 Repeat Transmission
10-10 Off Duty
10-11 Identify Frequency- KA4993 ("S" Channel)
10-12 Computer Delay, Your (10-29) (11-27) (11-28)
10-13 Advise Road Or Weather Conditions
10-14 Provide Escort
10-15 Prisoner In Custody
10-17 Relay Papers, Supplies, Etc.
10-19 Return Or Report To _____
10-20 Location Requested
10-21 Telephone _____
10-22 Disregard
10-23 Stand By
10-29 Check For Wanted (Person, Vehicle, Or Object)

10-30 Improper Radio Traffic
10-36 Confidential Information
10-37 What Time Is It?
10-39 Message Or Item Delivered
10-97 Arrived At Scene
10-98 Assignment Completed
11-10 Take A Report
11-12 Loose Livestock
11-24 Abandoned Vehicle
11-25 Traffic Hazard
11-27 DDL Check, Driver Held
11-28 Registration Check, Driver Held
11-41 Ambulance Required
11-42 Paramedic Required (EMT)
11-44 Possible Fatality
11-48 Provide Transportation
11-66 Defective Traffic Signals
11-78 Paramedic Dispatched (EMT)
11-79 Accident- Ambulance Rolling
11-80 Accident- Major Injury
11-81 Accident- Minor Injury
11-82 Accident- Property Damage
11-83 Accident- No Details
11-84 Direct Traffic
11-85 Tow Truck Required
11-86 Bomb Threat
11-87 Bomb Found
11-98 Meet _____
11-99 Officer Requires Help, Emergency
11-99 Office Emergency At Office

Code 2 Urgent
Code 3 Emergency
Code 4 Cancel Back Up
Code 20 Notify Press
Code 33 Clear Radio Channels For Emergency Traffic

"X" will be used with any code whenever a female is involved.
"A" may be used to designate an "Abandoned Vehicle Check"

187(PC) Murder
207(PC) Kidnapping
211(PC) Robbery
261(PC) Rape
314(PC) Indecent Exposure
415(PC) Disturbing The Peace
459(PC) Burglary
647f(PC) Intoxication - In car, On Highway, Etc.
11500(H&S) Narcotic Violations
5150(W&I) Mental Case
20001(VC) Felony - HIT And RUN
20002(VC) Misdemeanor - Hit And Run
23101(VC) Felony - Drunk Driving
23102(VC) Misdemeanor - Drunk Driving
23103(VC) Reckless Driving
23104(VC) Reckless Driving - Causing Injury
23109(VC) Speed Contest / Exhibition Of Speed

22348a(VC) Maximum Speed Limit, 55 mph
22350(VC) Unsafe Speed For Prevailing Conditions

From ERNIE (CA-LA-033):

PUBLIC SAFETY RADIO SYSTEM-City and County of Fresno

Fresno County Sheriff's Department

Freq. 1: 39.94 "BLUE NET" 45.34 " - NET" Handhelds: 154.65 MHz.
Freq. 2: 39.88 45.50
Freq. 3: 39.80 45.66

Fresno County Fire Department

Freq. 1: 154.445 R (Input 46.14) MID VALLEY AREA
Freq. 2: 153.89 R (Input 46.42)
Freq. 3: 154.37
Freq. 4: 145.175
Freq. 5: 154.28 (State Mutual Aid)

Freq. 1: 154.19 NORTH CENTRAL AREA
Freq. 2: 154.28 (State Mutual Aid)

CALIFORNIA DEPTARTMENT OF FORESTRY

Region 4-South Sierra 151.265 (Input 159.33)
Local Fresno-Kings Co. 151.385 (Input 159.27)
Air Net "YELLOW" 151.31

Fresno Police Department

Freq. 1: 154.95 R Air Unit-Fixed Wing-Unit ID # 713 COUNTY LAW NET
Freq. 2: 155.415 R Input Freqs.: 156.03; 156.39 MHz. 155.67 159.03
Freq. 3: 154.83 Digicom: 453.275 MHz.
Freq. 4: 154.92 "CLEMARS"
Freq. 5: 154.935

Fresno Fire Department

Freq. 1: 154.31
Freq. 2: 153.845 R PRIMARY
Freq. 3: 154.28 State Mutual Aid

AMBULANCE COMPANIES

155.22 American
155.175 Courtesy, Jones

California Highway Patrol-Fresno Area CALTRANS 47.20

"SILVER" 42.08 B/42.28 M Central & East
"PINK" 42.44 B/42.76 M West & South

California State University, Fresno Police Department 153.74 MHz

Fresno City Bus Lines "CONTROL"

Freq: 453.275R,.525R, .625R, .800R, .950R

Fresno Community Hospital

33.04 Paging
155.34 H.E.A.R. (Hospital Emergency Administrative Radio)
155.385

PUBLIC SAFETY RADIO SYSTEM-City of Clovis

460.175 R POLICE (new) (Old frequency: 45.58)
46.20 FIRE
45.15 LOCAL GOVERNMENT
155.205 AMBULANCE
155.28 SCHOOL

From CRAIG (CA-VE-011):

PUBLIC SAFETY RADIO FREQUENCIES-Humbolt County

154.43	KMH646	Eureka Fire Department
156.03	KMA523	Eureka Police Department
154.74		Humboldt County Sheriff
46.06		North County Fire Departments
33.70		South County Fire Departments
151.25		California Department of Forestry
153.74		California State University, Humboldt Police
154.22		California Office of Emergency Services (O.E.S.)
152.36		"City Ambulance"

PUBLIC SAFETY - WEST, CALIFORNIA CONTINUE

168.725 Six Rivers National Forest
42.54 B) California Highway Patrol
42.24 M)

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From R.L.F. (CA-SD-023):

SHERIFF'S DEPARTMENT-County of San Diego

"East County Beat" Frequency: 45.70 B/45.78 M

"42"	Units	Poway	"45"	Units	Lakeside
"43"	"	Ramona	"48"	"	Bostonia & El Cajon
"44"	"	Santee	"70"	"	Alpine & Desert

NOTE: "40S" Supervisor "Z" units are Reserves

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From RICK (CA-RI-006):

SHERIFF'S DEPARTMENT-County of Riverside

Radio System

			Frequencies as in cars
Freq 1:	158.850		Riverside, Perris, Lake Elsinore, Blythe (DISPATCH) Use Freq. 8 (159.45 MHz.) for car to car.
Freq 2:	159.090		Desert areas. (DISPATCH) Use Freq. 8 for car to car.
Freq 3:	158.970		Local car to car.
Freq 4:	158.820		Banning, Beaumont, Hemet (DISPATCH) Use Freq. 6 (158.925 MHz.) for car to car.
Freq 5:	158.760		Indio (DISPATCH) Use Freq. 8 for car to car.
Freq 6:	158.925	*	County-wide car to car
Freq 7:	-		Blank
Freq 8:	159.450	*	County-wide car to car

*NOTE: Soon to be on repeater, presently simplex. Editor's note: I have been told by several people that R.S.O. can operate repeater or simplex mode, as chosen by the dispatcher. When I monitor R.S.O. Riverside on 158.85 MHz., I only hear the dispatcher, never mobiles.

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ATTENTION:

All R.C.M.A. members who sent in information material requests to me, please be patient. I have just recently moved, and amongst other things, a majority of my R.C.M.A. files got "temporarily lost". If you don't mind helping me out a great deal, those of you who did send in requests, could you PLEASE send me another request, with S.A.S.E. To those who requested L.A.P.D. area maps, all I have is a city division map (similar to the one in Police Call), not individual R.D. maps. Sorry! I still have received no information from anyone regarding L.A.P.D., and many other areas. As you know, I am now in charge of the entire state of California. Please guys and gals, let's make this the BEST section of the R.C.M.A. Newsletter! THANKS!!!! ERIC (CA-LA-045) INFO: Old address is still ok, as mail will be forwarded to me. I will publish new address in next issue of the Newsletter. EJC.

MONITORING & THE LAW

Send all articles, references, copies of monitoring laws and questions pertaining to the legal aspects of monitor radio listening to:

EDITOR NEEDED!

We need a new Monitoring and the Law column editor. The editor of this column should have some familiarity with monitoring laws and it would be desireable if he/she had a collection of monitoring laws from around the nation. This editor would be required to generate some information for the column as well as organize input from the general membership. If you are interested, please type a letter telling about yourself to: RCMA Managing Editor, P.O. Box 216, Willow Grove, PA 19090.

BASE TYPE MONITOR ANTENNAS CURRENTLY IN STOCK. (Prices/models subject to change)

Price	Brand and model	Coverage	Remarks
22.95	Hy-Gain MR21	Low	
18.50	Antenna Specialists MON3	High	Can also be cut to UHF
19.95	Hy-Gain MR8	High	
19.95	Hy-Gain MR6	High	Beam
24.95	Cushcraft Ringo AR2	High	Gain type, 3.75 DB
39.95	Cushcraft Ringo ARX2	High	" " 6 DB
55.00	Cushcraft P137-7 (2 types)	High 154 or 161Mhz	7 element beam
24.95	Cushcraft AR450	U.H.F.	Gain type, 3.75 DB
39.95	Cushcraft ARX 450	U.H.F.	" " 6 DB
18.50	Antenna Specialists MON3	U.H.F.	(See MON3 above)
39.00	Antenna Specialists ASP659	U.H.F.	Gain type, 2 DB
50.00	Cushcraft P467-6	U.H.F.	6 element beam
65.00	Cushcraft P467-11	U.H.F.	11 element beam
	MULTI-BAND TYPES		
34.50	Antenna Specialists MON8	Low & high	
27.95	Avanti Interceptor AV601	Low & high	
34.95	Antenna Specialists MONR31	Low, high, U.H.F.	
24.95	Hy-Gain MR18	Low, high, U.H.F.	
24.95	Newtronics "Discone" DCX	"40-700"	
34.95	Avanti AV801	Low, high, U.H.F.	
23.00	Antenna Specialists AV5	108-470	Mainly for aircraft band
19.95	Wintenna SCAN15	Low, high, U.H.F.	Also mirror mount mobile
22.95	Wintenna SCAN25X	Low, high, U.H.F.	
27.95	Wintenna SCAN40X	Low, high, U.H.F.	

Coaxial cable is not supplied with base type monitor antennas. We stock RG8X which is the new cable with low loss characteristics almost the same as RG8 but only slightly larger diameter than RG58. 50' $11.00, 75' $14.85, and 100' $18.65 This cable has PL259 connectors at both ends.

714/635-1033

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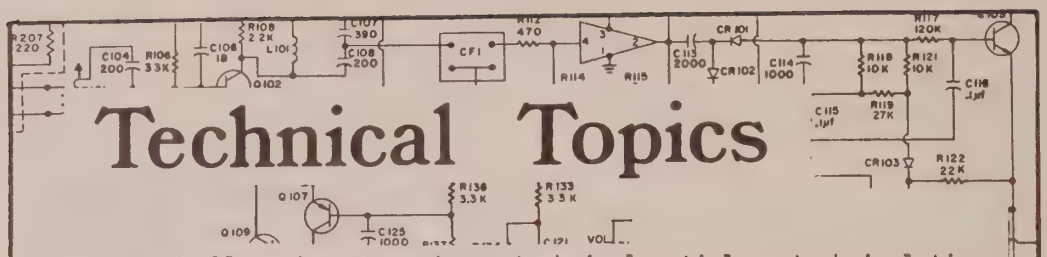

Technical Topics

Send all equipment reviews, technical articles, technical tips and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions or even computer applications

EDITOR NEEDED!

We need a new Technical Topics editor. The editor of this column should have a background in electronics and an understanding of VHF/UHF radio communications. This editor would be required to generate some information for the column as well as organize input and questions from the general membership. If you are interested, please type a letter telling about yourself to: RCMA Managing Editor, P.O. Box 216, Willow Grove, PA 19090.

FROM Michael Hodges
VA 002

BEARCAT 300 REVIEW

I purchased the newest addition to the "Bearcat" family the first of May, a little later than its March 1980 scheduled release and at an inflated $500+ list price. The long wait is over.

The new blue readout, computer-like layout, and my first aircraft monitoring are impressive.

Actual frequency selectives are 30-50, 118-136, 144-174, 421-512 MHz. At this time I know of no way to alter these limits and search out of band. If the unit had the "search and store" feature, as the BC-250, this could be done. Perhaps someone will figure out a way later.

The BC300's IF (intermediate frequency) is 10.8 MHz. This makes images 21.6 MHz from the original frequency. The oscillator is voltage controlled. No schematic accompanied the scanner, but I obtained four quite detailed schematics by writing Electra.

Readout operates every .005 MHz in LO, HI, and AIR (i.e. 151.000,151.005, 151.010, 151.015). In UHF it operates in .012 and .013 MHz (i.e. 421.000, 421.012, 421.025, 421.037, 421.050).

ADVANTAGES: increase in audio (2.5 W), "hold" in search, few if any birdies, "priority" doesn't interrupt other channels audio as abruptly as previously, entire UHF can be searched in one setting, blue readout more easily read, and all of the 144-148 MHz ham band.

DISADVANTAGES: speaker is inside of unit, no "store" or "recall" in search, draws current when turned off in AC and DC (for clock), and the biggest disappointment - no "up" and "down" limits in search - only "up".

One other note, the available pre-programmed frequencies at the touch of a button are nice, but could have been better. "Ham" starts with 146 to 148 MHz not 144 to 148 MHz. "Govt." is local government frequencies not federal government frequencies as one might assume. No federal government frequencies are pre-programmed. Some groups contain miscellaneous frequencies and are random selections.

The Bearcat 300 is extremely sensitive and selective, a definite improvement. It is much more improved than the BC250.

Business, Etc.

Chuck Gysi, Editor

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufacturers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/ hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to: Chuck Gysi, P.O. Box 216, Willow Grove, PA 19090.

I apologize for not having my column in as usual last month, but with the transition as newsletter managing editor was taking place. I just did not have the time to prepare this column. Bryan Hunnell of the paste-up crew covered for me and ran one of the Las Vegas casino frequency lists. Without further discussion, here's this months column.

News Media/Film

ATLANTA AREA NEWS MEDIA FREQUENCIES

From Andy (GA-015):

173.275	Atlanta News Agency
173.375	Atlanta Journal/Constitution
455.550	WSB-TV Ch.2
455.050	WSB Radio 750
450.350	WSB remote pick-up
455.250	WSB Skycopter
450.450	WAGA-TV Ch. 5
455.450	WAGA remote pick-up
450.150	WXIA-TV Ch. 11
455.0875	WPLO Skycopter
455.3875	WPLO Radio 590 remote pick-up
450.800	WPLO Radio 590 remote pick-up
161.730	WPLO-FM "V-103"
455.550	Pacific and Southern Inc.

CHATTANOOGA, TENN. NEWS MEDIA FREQUENCIES

From John (TN-005):

450.4875	WTVC-TV (repeater)
161.730	WRCB-TV
161.640	WDEF-TV
450.3125	WGOW radio (repeater)
450.5875	WDOD radio (repeater)
?	WNOO radio

MILWAUKEE UPDATE

From Tom (WI-006):

Here are some additional Milwaukee news media frequencies:
161.670 KQV 761 WAWA-AM and WLUM-FM
161.760 KSE 407 WEMP-AM and WNUW-FM
In addition, NBC News was using the following frequencies for election coverage during the Wisconsin primaries: 161.67 and 161.70. Call sign used was KEK 322.

(Editor's note: The KEK 322 call sign is NBC's call sign for their New York City base station and associated mobiles. NBC News also was heard using 161.76 in Philadelphia during the Pennsylvania primary election. ID was "Base" or "NBC Base.")

From TONY (NJ-005): Shadow Traffic Network in New York metro area has switched from GMRS channel 462.55 to 452.975. New frequency does not seem as powerful as GMRS system. (Editor's note: Shadow still is

using 462.55 in Philadelphia and Chicago.)

GMRS

From HAROLD (NY-053): New York City REACT is on 462.675.

From LARRY (MI-001): Security and maintenance for Detroit's new Renaissance Center ("RenCen") is on 462.600.

From RCMA: Even our very own club is not immune from being eavesdropped on. Some of RCMA's officers and members are operating on the Southern California REACT Council's repeater on Santiago Peak. Output is 462.675, input 467.675. Orange County Search and Rescue also uses the repeater as an administrative channel.

Business

SOME NEW YORK METRO FREQUENCIES

From Harold (NY-053):

44.40	Schuster Trucking
463.700	Atlas Boiler Co.
464.350	TelePrompter Cable TV
461.625	General Electric mobile radio repair
477.9875	Air Traffic Service
464.300	Black Pearl Car Service

ALASKAN PETROLEUM COMPANIES FREQUENCIES

From Larry (MI-001):

48.58	KJJ 249	Shell Communications (Nikishka) B
48.62	KSN 943	Exxon Communications (Mikkelsen) BM
48.64	KGS 622	Gulf Oil Communications (Cape Yakataga) B
48.66	KQQ 315	Chevron Telecommunications (Kenai) MR
48.68	WXY 777	N.W. Alaska Pipeline Co. (Salt Lake City?) B
48.70	KHF 29	ARCO Communications Inc. (Anchorage) CO
49.16	KCH 552	ARCO Communications Inc. (Homer) MR
49.36	KQQ 314	Chevron Telecommunications (Kenai) CO
49.44	KZR 209	ARCO Communications Inc. (Yakataga) MR
49.48	WBZ 908	Union Oil Co. of California (Anchorage) CO
153.050	KEE 644	Alyeska Pipeline Service Co. (Prudhoe Bay) B
153.080	KZT 578	BP Communications Alaska (Fairbanks) MR
153.110	KXK 34	Chevron Telecommunications (Anchorage) CO
153.350	KXY 862	Taps Communications Assn. (Prudhoe Bay) B
158.280	KZ 2791	Alyeska Pipeline Service Co. (Anchorage) M
158.415	WBN 312	Alyeska Pipeline Service Co. (Fairbanks) OF
451.175	KYH 895	Exxon Communications Co. (Deadhorse) MR
	KCZ 832	Exxon Communications Co. (Seward) BR
451.275	KEE 673	Alyeska Pipeline Service Co. (Prudhoe Bay) B
451.375	KEG 680	Marathon Oil Co. (Mikiski) MR
451.525	WXH 901	N.W. Alaskan Pipeline (Delta Junction) MR
451.550	KEJ 909	Alyeska Pipeline Service Co. (Valdez) RP
451.575	WXH 900	N.W. Alaskan Pipeline (Tanacross) MR
451.600	KA 2120	Geophysical Service of Dallas M
451.650	KXK 265	BP Communications Alaska (Prudhoe Bay) MR
451.675	WZX 249	Alyeska Pipeline Service Co. (Prudhoe Bay) MR
451.725	KWD 867	Alaska Constructors (Deadhorse) MR
452.100	WEY 564	ARCO Communications Inc. (Prudhoe Bay) OF
454.000	KQH 947	Gulf of Alaska Clean-Up Organization (Anchorage) MR
456.600	WAE 223	ARCO Communications Inc. (Prudhoe Bay) CO
456.650	WAP 954	BP Communications Alaska (Prudhoe Bay) CO

Motor Carrier

METRO ATLANTA RAPID TRANSIT AUTHORITY (MARTA) SYSTEM

From Andy (GA-015):

453.875	Ch. 1 Westside
453.700	Ch. 2 Eastside
453.775	Ch. 3 North and west
453.925	Ch. 4 Administrative
453.950	Ch. 5 Maintenance
453.725	Ch. 6 Same as Ch. 1, Base only
452.475	Transit police
452.775	Rapid rail/subway
452.875	Rapid rail maintenance

From LOU (PA-024): The U.S. Urban Mass Transportation Administration has awarded a $9.6 million grant to the Southeastern Pennsylvania Transportation Authority (SEPTA) for acquiring and installing two-way radios in its buses and trolleys that operate in the Philadelphia area. The system is expected to be operational by December.

(Editor's note: The frequencies that will be used are 12 UHF T-band channels from 502.5125 to 502.7875. Transmitter locations will be in Philadelphia, Trooper (Montgomery County) and Sugartown (Chester County). More information on the system as it becomes available.)

BALTIMORE MASS TRANSIT SYSTEM

From Joe (MD-015):

494.3375	Ch. 1
494.4375	Ch. 2
494.6125	Ch. 3
494.6375	Ch. 4
494.7625	Security
494.9625	Supervisors

Mobile Phone/RCC

From RICH (PA-027): KDKA News crews use UHF (454 MHz) mobile direct dial phones in all of their vehicles and news helicopter "Chopper 2."

NEXT MONTH: Celebrity and VIP mobile telephones.

Freak Freqs

Sorry, no offbeat frequencies for this month. Do you know of any unusual uses of two-way radios? If so, please send the information in to this column.

Utility

PART V--LOS ANGELES CITY WATER AND POWER SYSTEM

173.35 MHz system

The frequency 173.35 MHz (Channel 5) is used in the Los Angeles area for communications in and around the Scattergood generating station; in and around the general office building, and for retransmission purposes when field units are utilizing mobile radio extenders or vehicular repeater systems.

This system has been designed with the use of "keying tones" so communications normally can be carried on at both facilities and with mobile radio extenders without interference.

Base station operators must transmit their FCC assigned call sign at the end of each series of transmissions. Mobile unit operators communicating solely with other mobile units must transmit the assigned call sign KY 3633 when clearing the frequency.

Users of mobile radio extenders or vehicular repeater systems when communicating solely with other mobile units, must transmit the assigned FCC call sign KU 2578 when clearing the frequency.

METRO NEW YORK UTILITY FREQUENCIES

From Harold (NY-053):

471.7875	Brooklyn Union Gas
451.025	Con Edison repair trucks/Bronx
451.075	Con Edison electric service/Manhattan
451.125	Con Edison repair trucks/Brooklyn
451.475	Con Edison gas service/Manhattan
451.575	Con Edison repair trucks/Queens
451.050	Con Edison dispatch and supervisors/citywide

Security

METRO NEW YORK SECURITY FREQUENCIES

From Harold (NY-053):

472.2375	Starret City security/Brooklyn
467.875	Penn Plaza South security/Manhattan
467.750	Roosevelt Hospital security/Manhattan
155.325	New York Hospital security/Manhattan
155.340	Mount Sinai Hospital security/Manhattan
155.280	Beth Israel Hospital security/Manhattan
464.100	Airbourne security/Suffolk County
462.025	Unlimited Guard Service/Bronx
151.715	Mills Patrol Service/Manhattan
154.515	Mandel Security/Brooklyn--foot patrols at housing co-ops
478.0375	Intelligence Security/Queens

School

This is the column to send in frequency and beat information regarding public and private schools and colleges and universities. If you have any information on school systems, send them in to this column.

Membership List

AL 010 HULTAM JR, R.G.;1054 MESA DR;BIRMINGHAM, AL 35235
AR 010 WESTON, JEFF;102 MT TABOR ST;HOT SPRINGS, AR 71901
CAAL024 GODFREY, MARGARET L;1200 W WINTON #92;HAYWARD, CA 94545
CABU004 EVERETT, BILLY E;PO BOX 136;CHICO, CA 95927
CACC008 CRAFT, NOEL F;279 APOLLO WAY;PLEASANT HILL, CA 94523
CACC009 NORMAN, CINDY;230 SHEILA CT;MORAGA, CA 94556
CAHU001 CHAMBERS, GLORIA;PO BOX 874;FORTUNA, CA 95540
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CALA275 EASTCOTT, M ELMITT;16421 MILLSTREAM LN;CERRITOS, CA 90701
CALA276 DERKS, GREG;11526 E WALCROFT;LAKEWOOD, CA 90715
CALA277 PUSHICH, ED;431 N VINEDO;PASADENA, CA 91107
CALA278 PRIDDY, GARY;1031 ARCADIA AVE;ARCADIA, CA 91006
CALA279 JOSEPH, BRYAN K;2615 CANYON DR;LOS ANGELES, CA 90068
CALA280 NELMAN, ROGER G;373 S HOOVER #110;LOS ANGELES, CA 90020
CALA281 ADAMS, RONALD L;2521 6T ST;ARCADIA, CA 91006
CALA282 KOMONYI, RICHARD;6575 5TH AVE;LOS ANGELES, CA 90043
CALA283 ILLES, RICHARD;507 ELECTRIC;SEAL BEACH, CA 90740
CALA284 HOUK, JACK H;3212 N ISABEL AVE;ROSEMEAD, CA 91770
CALA285 LESPERANCE, D;3848 1/2 WATSEKA;CULVER CITY, CA 90230
CALA286 BOYD, RANDALL M;10459 ARTESIA BLVD #14C
BELLFLOWER, CA 90706
CALA287 NOEL, JOHN E;1641 STEINHART AVE;REDONDO BEACH, CA 90278
CALA288 HELD, DAVID;PO BOX 483;HARMOSA BEACH, CA 90254
CALA289 ROSS, DAVID E;12155 BURBANK BLVD #B
NO HOLLYWOOD, CA 91607
CALA290 LANGSTON, KENNETH;3716 MAXSON RD;EL MONTE, CA 91732
CALA291 HARTLEY, BOB;PO BOX 2051;IRWINDALE, CA 91706
CALA292 JOHNSON, LORENZO L;827 E 104TH ST;LOS ANGELES, CA 90002
CALA293 SMITH, RICHARD L;24524 TREASURE VISTA DR
NEWHALL, CA 91321
CALA294 GORDON, JACK;7149 RAMSGATE AVE #D;LOS ANGELES, CA 90045
CALA295 MAC DONALD;J.H.;12018 RENDOVA ST;ARTESIA, CA 90701
CALA296 ASHLOCK, BOB;7305 VAN NUYS BLVD;VAN NUYS, CA 91405
CALA297 TOMLINSON, DAN DAVID;12A 27TH AVE;VENICE, CA 90291
CALA298 CLARK, MARK;11442 CRESSON ST;NORWALK, CA 90650
CALA299 SHAFER, JACK;516 FLOWERS ST;PASADENA, CA 91104
CALA300 R.F.;DOWNEY, CA 90241
CALA301 RODRIGUEZ, CARLOS M;1332 18TH ST #5
SANTA MONICA, CA 90405
CALA302 DARK, DAVID A;6412 CRESCENT ST;LOS ANGELES, CA 90042
CAME012 RAKE, KETHLEEN;158 MAYWOOD WAY;SAN RAFAEL, CA 94901
CANA052 PAGE, JOE;1696 MILTON RD;NAPA, CA 94558
CANA056 DE WILMS, TERRY;6004 MONTICELLO RD #20;NAPA, CA 94558
CAOR160 LENGERER, PETER;14781 RIDGEBORO PL;TUSTIN, CA 92680
CAOR161 CANTLAY, ROBERT;30672 PASEO DEL NIGUEL
LAGUNA NIGUEL, CA 92677
CARI025 RUSSELL II, ROLAND;39950 LAMBERT PL;BEAUMONT, CA 92223
CASA011 HEILMAN, JACK;12490 ALTA MESA RD;GALT, CA 95632
CASB025 LITTLE, RON;12844 HARMONY;CHINO, CA 91710
CASB026 THORNBURG, MSGT WILLIAM D;14TH MAS BOX 4152
NORTON AFB, CA 92409
CASB027 MUELLER, BLYNN;950 LILLIAN DR;BARSTOW, CA 92311
CASC018 BORDE, R.G.;748 HARVARD AVE;SUNNYVALE, CA 94087
CASC019 CLARK, PHIL;6747 BRET HARTE DR;SAN JOSE, CA 95120
CASD029 BOONE, BILLY R;2432 MELBOURNE DR;SAN DIEGO, CA 92123
CASE001 COLE, ARTHUR D;400 SAN JUAN-HOLLOSTER RD
SAN JUAN BAUTISTA, CA 95045
CASF014 MALKAY, KEITH;5545 BERWIND AVE;LIVERMORE, CA 94550
CASM013 COCHRAN, KERRY;PO BOX 911;SAN BRUNO, CA 94066
CASM014 JAMES;MILLBRAE, CA 94030
CASO003 CREEDY, ROBERT D;PO BOX 14;BENICIA, CA 94510
CASR008 HOLDMAN, PHILIP H;400 RUTHERFORD ST;GOLETA, CA 93017
CASR009 STAMPS, HUBERT;PO BOX 3563;SANTA BARBARA, CA 94105
CAVE016 DAVIS, FRANK;5590 CHERRY RIDGE DR;CAMARILLO, CA 93010
CAVE017 RUSSO, J JOSEPH;1979 MARCO DR;CAMARILLO, CA 93010

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CO 019 BREMERS, HENRY;4076 STONE PL;BOULDER, CO 80301
CO 020 SHELTON, GARNET E;PO BOX 333 420 WILEG AVE
SWINK, CO 81077
CT 026 GOFF, WILLIAM C;OLD MIDDLETOWN RD;EAST HAMPTON, CT 06424
CT 027 SCEPANSKI, MIKE;HILL ST EXT;JEWETT CITY, CT 06351
CT 028 BREEN, THOMAS;31 3RD PART ST;MILFORD, CT 06460
CT 029 CUSANELLI, BRUCE P;36 COURTNEY DR;ROCKY HILL, CT 06067
CT 030 GUIMOND, LOU;SHOREFRONT PARK, CT 06854
CT 031 OSENKOWSKY, TOM;5 BEECHWOOD GROVE;BROOKFIELD, CT 06804
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DE 006 CRAWFORD, BRUCE;5 BROADBENT RD;WILMINGTON, DE 19810
DE 007 UMLAUF, FRED H;731 W DIVISION ST;DOVER, DE 19901
FL 052 BLOOMFIELD, JAMES;1428 VILLA LANES #2;???, FL 33549
FL 053 BROEDEL, BOB;PO BOX 20049;TALLAHASSEE, FL 32304
FL 054 WYMAN, ROBERT;8920 SW 170 ST;MIAMI, FL 33157
FL 055 EASTON, SHIRLEY A;9191 BLOOMFIELD DR;LAKEPARK, FL 33410
FL 056 SCHLAGHECK, A.J.;19000 NW 10TH PL;MIAMI, FL 33169
FL 057 SWARTZ, ROBERT G;11700 SW 11TH ST
FORT LAUDERDALE, FL 33325
FL 058 GLORIUS, DAVID;PO BOX 452;SILVER SPRINGS, FL 32688
FL 059 MEYFARTH, FRED H;5304 E KERBY ST;TAMPA, FL 33617
FL 060 VANAMAN, JOHN WL361 SHORE DR;ELLENTON, FL 33532
FL 061 PHILLIPS JR, MAXIE;PO BOX 542;EARLETON, FL 32631
FL 062 HARRIS, GERALD R;38 CLEVELAND RD;LAKE WORTH, FL 33463
FL 063 GIROMINI II, EUGENE;1932 TAFT ST #40;HOLLYWOOD, FL 33020
FL 064 SAGE, CHARLES E;515 79TH AVE
ST PETERSBURG BEACH, FL 33706
GA 020 MORGAN, DANNY A;PO BOX 263;JESUP, GA 31545
GA 021 WHITTLE III, JAMES E;PO BOX 1132;DUBLIN, GA 31021
IA 017 STICKFORT SERVICE&REPAIR;408 MAIN;REINBECK, IA 50669
IA 018 KAACK, MARGARET E;BOX 631-3307 GARFIELD;CLINTON, IA 52732
IA 019 BUSSE, JUDY;PO BOX 571;GEORGE, IA 51237
ID 005 STEIGER, RICHARD A;PO BOX 843;KAMIAH, ID 83536
IL 116 SPERLING, WILLIAM;BOX 40;WESTMONT, IL 60559
IL 117 LANG, WILLIAM R;2801 MORCAMBE BAY DR;NEW LENOX, IL 60451
IL 118 NORWICK, TOM;223 SOUTH PIERCE;WHEATON, IL 60187
IL 119 JONES, WILLIAM A;PO BOX 1316;CHICAGO, IL 60690
IL 120 SCHETTER, EDWARD V;2636 N 75TH CT;ELMWOOD PARK, IL 60635
IL 121 KANE, DONNA;1415 W EDGEWATER;CHICAGO, IL 60660
IL 122 RITCHIE, REX A;341 E GARFIELD;DECATUR, IL 62526
IL 123 FARLEY, JOSEPH A;7332 W ARMITAGE AVE
ELMWOOD PARK, IL 60635
IL 124 TAKAHASHI, BILL;631 SHERMAN;EVANSTON, IL 60202
IL 125 BOURGEOIS, MARTIN;RR 7 BOX 8;KANKAKEE, IL 60901
IL 126 DOCHERTY, DAVID B;1-307 LAMONIE VILLIAGE;MACOMB, IL 61455
IL 127 FLORA, GEORGE WL2221 MURRAY CLARK #;DANVILLE, IL 61832
IL 128 ALBRIGHT, JIM;AVANTI RESEARCH & DEVELOPE;340 STEWART AVE
ADDISON, IL 60101
IL 129 HURAK, RICHARD;1944 S 55TH CT;CICERO, IL 60650
IL 130 MARQUARDT, CHARLES F;3704 N SHERIDAN RD
WAUKEGAN, IL 60085
IL 131 FOOR, JEFFERY L;RR 3;SHELBYVILLE, IL 62565
IL 132 WAY, AVANELLE M;280 S ONTARIO;KNOXVILLE, IL 61448
IN 033 DEBAUN, THOMAS K;RR 1 BOX 288;WALDRON, IN 46182
IN 034 SELLERS, JAMES S;1333 S VAN BUREN;AUBURN, IN 46706
IN 035 CASBON, CARLA;1159 RANSOM RD;VAL PARAISO, IN 46383
KS 013 BERGQUIST, FRANK&BETTY;4560 S HYDRAULIC #311
WICHITA, KS 67216
KY 012 MALONE, JAMES;THE ADVOCATE;PO BOX 406
MT STERLING, KY 40353
KY 013 LE MOINE,ROGER R;8015 CANNA DR;LOUISVILLE, KY 40258
KY 014 BARNES, GENE R;427 BERMUDA LN;LOUISVILLE, KY 40213
KY 015 HARTMAN, HARRY;446 TAYLOR AVE;BELLEVUE, KY 41073
KY 016 TOWNSLEY, EDWARD;335 GRANDVIEW AVE;BELLEVUE, KY 41073

NEW MEMBERS LIST CONTINUE

LA 014 TROXCLAIR, SHERMAN J;RT 1 BOX 40A;LUTCHER, LA 70071
LA 015 LITOLFF JR, EDDIE;380 ROBERT RD;SLIDELL, LA 70458
LA 016 HAYSLIP, FRANK W;10006 SMITHERMAN DR;SHREVEPORT, LA 71115
MA 056 LE CLERC, RAYMOND J;39 LAFAYETTE PL;SALEM, MA 01970
MA 057 JARRETT, ROBERT B;37 GEORGE ST;SPRINGFIELD, MA 01105
MA 058 CORDARO JR, BENJAMIN J;176 PRESIDENTS LN #204
QUINCY, MA 02169
MA 059 ROSENBERG, HOWARD M;8 EISENHOWER AVE;BEVERLY, MA 01915
MA 060 PIRES, BERNARDO;81 HISHLAND ST;REVERE, MA 02151
ME 012 BOIS, JAMES A;16 CHESTNUT ST;AUBURN, ME 04210
MI 048 ADAMS, THOMAS W;PO BOX 1165;MIDLAND, MI 48640
MI 049 RICHARDS, DDS DAVID L;610 S LAFAYETTE;DEARBORN, MI 48124
MI 050 ROSTOW, PAUL J;23220 BEVERLY;ST CLAIR SHORES, MI 48082
MN 019 MUELLER, JIM;16263 FINCH WAY;ROSEMONT, MN 55068
MN 020 KLAYSMAT, GLADYS L;318 W 37TH ST;HIBBING, MN 55746
MN 021 FLENN;HASTINGS, MN 55033
MO 022 STEINBRUEGGE, KENNETH D;240 STONICHOLAS LN
FLORISSANT, MO 63031
MO 023 FARRELL, JOHN C;RR 3;LANCASTER, MO 63548
MO 024 SCHLAKE, MARTIN;7333 ALABAMA;ST LOUIS, MO 63111
MO 025 HOFFMAN, GARY R;250 COMANCHE LN;FLORISSANT, MO 63033
MS 008 CHRISTOPHER, AL;122 MARGARETTA DR;STARKVILLE, MS 39759
MS 009 DUANE;BILOXI, MS 39531
MT 002 RAGNVALO, BOB;BOX 1666;HAVRE, MT 59501
NC 018 ENNIS, WAYNE L;4020-B1 CAMELOT DR;RALEIGH, NC 27609
NC 019 BROADWAY, DOUG;2722 MONTICELLO DR;WINSTON-SALEM, NC 27108
NC 020 AYERS, RONALD W;335 PRICE ST;MT AIRY, NC 27030
ND 002 MAGEDANZ, PAUL H;614 W SWEET #B1;BISMARK, ND 58501
NH 012 QUINTIN, PAUL C;23 MAPLE DR;BEDFORD, NH 03102
NJ 057 THOMPSON, ROBERT W;8 ROOSEVELT BLVD;OCEAN CITY, NJ 08226
NJ 058 MIGUT, JAMES J;28 SCHUYLER AVE;NORTH ARLINGTON, NJ 07032
NJ 059 DUCKWORTH, GEORGE G;52 ERIE AVE #19;RUTHERFORD, NJ 07070
NJ 060 HASTICK, THEODORE;498 PAULISON AVE;PASSAK, NJ 07055
NJ 061 DOMANSKI, PATRICK;420 JEFFERSON AVE
HASBROUCK HEIGHTS, NJ 07604
NJ 062 PLUMMER, EDWARD J;PO BOX 'O';ATLANTIC CITY, NJ 08404
NJ 063 MALHAME, THOMAS;311 APACHE LN;BRICKTOWN, NJ 08723
NJ 064 COLLINS SR;ANTHONY M;262 B SOMERS AVE
CLARKSBORO, NJ 08020
NJ 065 GROSINGER, PAUL;58 OLD RT23 RD #2;NEWFOUNDLAND, NJ 07435
NJ 066 KWOLLER, GARY M;266 4TH AVE;EAST ORANGE, NJ 07017
NJ 067 CRITELU, JOSEPH;349 9TH ST;JERSEY CITY, NJ 07302
NM 002 GILBERTSON, JOAN G;12205 CLAREMONT NE
ALBUQUERQUE, NM 87111
NM 003 ABRAMS, TOM;845 ALVARADDO SE;ALBUQUERQUE, NM 87108
NV 005 POULSEN, DR RICHARD C;1105 N ROCK BLVD;SPARKS, NV 89421
NY 103 HUBBARD JR, JOSEPH P;84 MONTCALM AVE
PLATTSBURGH, NY 12901
NY 104 CORNEARD, L;BOX 260;BOWLING GREEN STATION
NEW YORK, NY 10004
NY 105 WILLIAM;WALLKILL, NY 12589
NY 106 STARR, DANIEL R;4133 OAK ORCHARD RD;ALBION, NY 11441
NY 107 REILLY JR, DANIEL J;8 BAYDEN RD;OSSINING, NY 10562
NY 108 DE FURIA, BARRY S;10 SOUTH HOPE ST;SARANAC LAKE, NY 12983
NY 109 MAURER, FRANK S;BOX 87;NEW BALTIMORE, NY 12124
NY 110 ROSENBERG, GENE C;PO BOX 485;RYE, NY 10580
NY 111 FILARECKI, DAVE;26 COTTON ST;LANCASTER, NY 14086
NY 112 MORELLI, JOHN;324 YALE RD;GARDEN CITY SO, NY 11530
NY 113 DOW, JOSEPH T;USMCAZ (DIO);APO, NY 09052
NY 114 MC COOK, GEORGE W;BOX 213;JAMAICA, NY 11431
OH 063 BEDUHN, CARL F;14411 TABOR AVE;MAPLE HEIGHTS, OH 44137
OH 064 MIGLEY, BILL;922 CARPICO DR;LANCASTER, OH 43130
OH 065 SHANK, RICHARD W;21220 W SR51 #32;GENOA, OH 43430
OH 066 EVANS, JOHN L;2882 BOVING RD RT 9;LANCASTER, OH 43130
OH 067 THIELMAN, DR;2701 CITADEL DR NE;WARREN, OH 44483
OH 068 SPURCOCK, JAMES L;688 GLENWAY DR;HAMILTON, OH 45013
OH 069 MC CARTHY, MICHAEL D;649 WALLACE AVE;MILFORD, OH 45150

NEW MEMBERS LIST CONTINUE

OK 016 EVETT, BRUCE;10021 NE 12ST;OKLAHOMA CITY, OK 73130
OK 017 COOK, DAVID A;5913 N COLLEGE;OKLAMOMA CITY, OK 73122
OR 018 BALLAS, ANDREW;2600 SE 174TH AVE #P;PORTLAND, OR 97236
OR 019 HINTZ, STAN;4905 SE 45TH;PORTLAND, OR 97206
OR 020 MOORE, DOUGLAS C;2605 YORK ST;EUGENE, OR 97404
PA 066 BREEN, JOHN P;3001 MARSHALL RD #228;PITTSBURGH, PA 15214
PA 067 SABOL, MICHAEL J;2646 DAPHNE RD;PHILADELPHIA, PA 19131
PA 068 MC NEAL, ESSIE L;5925 CHRISTIAN ST;PHILADELPHIA, PA 19143
PA 069 CAREY, THOMAS C;419 PROSPECT AVE;MORRISVILLE, PA 19067
PA 070 BARKLEY, CHUCK;PO BOX 552;DUBLIN, PA 18917
PA 071 MAC DONALD, PAUL;306 S 2ND ST;MC CONNELLSBURG, PA 17233
PA 072 COLANGELO, DONALD J;7938 ARLINGTON AVE
UPPER DARBY, PA 19082
PA 073 WITHERS, MARK D;827 SENECA ST #1;PO BOX 1144
BETHLEHEM, PA 18016
PA 074 DIBELER, EDWARD L;3724 RUTHERFORD ST;HARRISBURG, PA 17111
PA 075 GREANEY, MARK B;727 PORTER ST;PHILADELPHIA, PA 19148
PA 076 SCHOENBERG, FLOYD;1616 PARRINGTON RD
PHILADELPHIA, PA 19151
PA 077 SCHUMAN, WALT;1937 BRISTOL PIKE #3;MORRISVILLE, PA 19067
PA 078 RADOVAN JR, MICHAEL A;PO BOX 14694;PHILADELPHIA, PA 19134
PA 079 POPSON JR, JOHN J;414 LACKAWANNA AVE;OLYPHANT, PA 18447
PA 080 WATSON, CHARLES;2086 E VICTORIA ST;PHILADELPHIA, PA 19134
RI 006 WAITORWICZ, BOB;PO BOX 281;WOONSOCKET, RI 02895
RI 007 NICHOLS, ALBERT F;ONE WHOLESALE WAY;CRANSTON, RI 02920
SD 002 FURSCH, V;RR 1 BOX 104;BRIDGEWATER, SD 57319
SD 003 BROCKMUELLER, RUDY L;RR 2 BOX 50;FREEDMAN, SD 57029
TN 010 HUGHES, RON;630 PODESTA;MEMPHIS, TN 38117
TN 011 COBBS JR, JASPAR;PO BOX 2343;MEMPHIS, TN 38101
TN 012 GREENE, ROGER;%ROGGER'S & CO;RT 6 KNOXVILLE HWY
NEWPORT, TN 37821
TN 013 PICKENS, BUDDY;RR 2 BOX 455;ADAMSVILLE, TN 38310
TX 041 DAVID;SAN ANTONIO, TX 78228
TX 042 CARMENA, MARK;3704 WINIFRED;FT WORTH, TX 76133
TX 043 QUINTANILLA, RICHARD;1215 W 9TH ST;AUSTIN, TX 78703
TX 044 MC CORMACK, RAY D;PO BOX 26854;HOUSTON, TX 77012
TX 045 LENTZ, EDWARD C;1211 VINCE;PASADENA, TX 77506
TX 046 MAYFIELD, C.A.;223 W HIGH;GRAND SALINE, TX 75140
TX 047 SNYDER, DOUGLAS C;PO BOX 453;PALESTINE, TX 75801
TX 048 DARIDSON, DARRELL;8511 NORTON;HOUSTON, TX 77080
TX 049 PITTMAN, CALVIN D;6224 HARTMAN RD;FORT WORTH, TX 76119
TX 050 CARSON, JOE;PO BOX 1233;EL PASO, TX 79947
TX 051 GRIFFITH, LEON;2220 TANGLEWOOD;ORANGE, TX 77630
TX 052 METOYER, EDWARD R;15714 CASCADE POINT DR;HUSTON, TX 77084
VA 030 UTZ, MARY M;7115 OAK RIDGE RD;FALLS CHURCH, VA 22042
VA 031 BLACKBURN JR, TALMADGE C;3629 ROYAL PALM ARCH
VIRGINIA BEACH, VA 23452
WA 018 SNELL, MARY E;10420 WILLAMETTE MERIDIAN RD NW
SILVERDALE, WA 98383
WA 019 MARCUS, RICHARD;PO BOX 491;LYNNWOOD, WA 98036
WA 020 BALTAZOR, LEO L;513 34TH ST;ANACORTES, WA 98221
WA 021 AGUN, EDWARD W;169 SALEM PLANT RD;SILVER CREEK, WA 98585
WI 017 BROWN MD, FRANK J;2600 STEIN BLVD;EAU CLAIRE, WI 54701
WI 018 FRUZEN, MICHAEL;1027 N IRWIN AVE;GREEN BAY, WI 54302
WI 019 MARX, JOHN;PO BOX 971;MADISON, WI 53701
WV 012 LE PAGE, CHARLES M;106 50TH ST SW;CHARLESTON, WV 25304
002BERM VIRTUE, H.D.;CRAWL;HAMILTON PARISH 212;BERMUDA
050CANA YVON;ST LAURENT, QUEBEC;CANADA H4L 4Y6
051CANA BOB;WILLIAMS LAKE, B.C.;CANADA V2G 2B4
053CANA CHURCHILL, DALE;950 PRESTON WAY;VICTORIA, B.C.
CANADA V9B 3B9
054CANA GAGNON, DONALD;892 LALONDE AVE;VAL D'OR, QUEBEC
CANADA J9P 2S9
055CANA HUITSMA, JIM;5606 50 AVE;CAMROSE, ALBERTA;CANADA T4V 0T7
057CANA PECHET, MYRON;3140 RIPON RD;BRITTSH COLUMBIA
CANADA V8R 6G5

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058CANA WEEDEN, S.G.;77-270 TIMBERBANK BLVD;AGINCOURT, ONTARIO
CANADA M1W 2M1
059CANA PULTZ, LLOYD;2565 JAMES ST;CLEARBROOK, B.C.
CANADA V2T 3L6
002MEXI SILBERMAN, WILLIAM;APDO 31-458;GUADALAJARA 5
JALISCO, MEXICO

AK.....1	IN.....32	NH.....11	UT.....2
AL.....10	KS.....13	NJ.....67	VA.....30
AR.....10	KY.....16	NM.....3	VT.....1
AZ.....20	LA.....15	NV.....5	WA.....20
CA.....636	MA.....60	NY.....107	WI.....18
CO.....20	MD.....23	OH.....67	WV.....12
CT.....29	ME.....12	OK.....17	WY.....4
DC.....3	MI.....47	OR.....18	BERM.....2
DE.....7	MN.....21	PA.....79	CANA.....55
FL.....62	MO.....24	PR.....1	ENGL.....2
GA.....20	MS.....9	RI.....6	ICLD.....1
HI.....2	MT.....2	SC.....7	MEXI.....2
IA.....17	NB.....3	SD.....3	NIRE.....2
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1. Your club Identification number. Please use it in all correspondence.

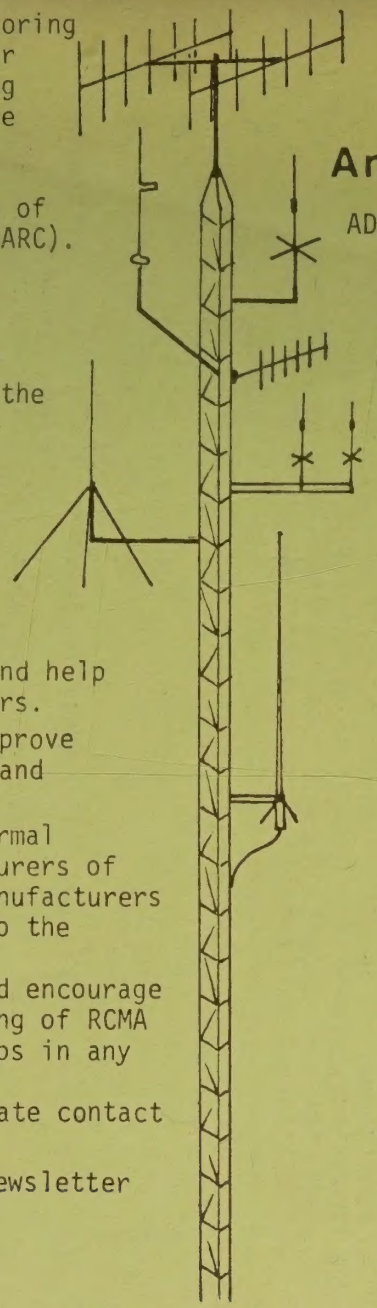
2. Your expiration date. Please renew before this date.

3. The mail package code. Only the computer knows what this is for.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications above 30 MHz as a hobby. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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